

**EARNINGS RELEASE PREVIEW** : This supplementary Excel workbook provides our **detailed stock-by-stock analysis for 97 companies that are expected to report earnings during the Week of November 14 - November 18, 2022.**

The Excel workbook includes several tabs:

- 1) Stocks grouped by sector and ranked from most to least attractive
- 2) Stocks grouped by industry within sectors and ranked from most to least attractive
- 3) Separate Cross-Sector Analysis where all stocks are ranked from most to least attractive independent of sector grouping
- 4) On-the-Radar – The top 20 most attractive names independent of sector grouping
- 5) Alphabetical company listing of the **97** stocks

Other workbook tabs include background information on components of Polaris along with **historical performance of the multi-factor model (see the BACKTEST tab).**

Polaris is differentiated from other research offerings by virtue of its **proprietary content, customized delivery and performance accountability.** Please contact Qubit Research, LLC directly to discuss any details of our work or to learn how we can further customize our analysis for your interest.

**Brian T. Hannon, CFA | Qubit Research, LLC**  
Founder, Director of Quantitative Equity Research

Date: 11-09-2022

Stocks are grouped by SECTOR and sorted from most to least attractive based on integrated Polaris Score = iPScore (see "Report Headings" tab).

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	iPScore	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	iPScore	VTCAVG	VSCORE	TSCORE					CSCORE
<b>Energy</b>																			
Helmerich&Payne	1	HP	48.30	2.07	0.81	1.05	3	-0.23	0.82	8	-1.24	-0.56	-0.72	-0.31	-0.46	5,086	0.50	20221116	OIL & GAS-DRILLNG
Freyr Battery	1	FREY	12.41	0.00	-0.43	1.78	9	-0.54	-0.18	6	-0.58	-0.71	0.06	-0.61	-1.52	1,445	1.24	20221114	OTHER ALT ENERGY
Renew Egy Gbl	1	RNW	6.17	0.00	-0.65	1.71	10	-0.38	-0.89	6	-0.58	-0.89	0.08	-0.46	-1.98	2,473	2.31	20221115	OTHER ALT ENERGY
<b>Materials</b>																			
Ferroglobe Plc	2	GSM	5.66	0.00	2.07	-0.14	1	1.29	2.11	1	1.10	1.42	0.34	1.36	2.56	1,060	2.86	20221115	MINING-MISC
Soc Quimica Min	2	SQM	103.23	4.67	1.65	0.78	3	-0.20	1.26	2	1.66	0.96	1.28	-0.14	1.73	29,486	0.15	20221116	FERTILIZERS
Berry Globl Grp	2	BERY	48.68	0.00	-0.02	-0.84	10	1.29	-0.70	5	-0.78	0.41	0.40	1.36	-0.53	6,586	0.72	20221115	CONTAINERS-PAPER/PLASTIC
Ginkgo Bioworks	2	DNA	2.30	0.00	-0.08	-0.52	10	1.29	-1.37	7	-1.97	-0.22	-0.74	1.36	-1.28	4,105	0.46	20221114	MEDICAL-BIOMED/GENETICS
Valvoline Inc	2	VVV	30.67	1.63	-0.16	0.80	11	-1.43	1.15	4	0.89	0.05	-0.22	-1.36	1.73	5,429	0.52	20221115	CHEMICALS-SPECIALTY
Cia Siderur-Adr	2	SID	2.64	10.29	-0.85	0.79	14	-1.29	-0.03	4	0.47	-0.45	-0.73	-1.23	0.60	3,663	2.09	20221116	STEEL-PRODUCERS
Bhp Group Ltd	2	BHP	52.10	13.38	-0.86	-1.28	14	0.34	0.15	1	0.19	0.36	0.06	0.41	0.60	76,854	0.11	20221115	MINING-MISC
Gerdau Sa Adr	2	GGB	5.50	10.12	-1.32	1.97	16	-1.02	-1.29	8	-0.02	-0.80	-0.46	-0.95	-0.98	9,458	0.37	20221116	STEEL-PRODUCERS
<b>Industrials</b>																			
Shoals Technol	3	SHLS	20.95	0.00	1.53	1.30	2	-0.51	1.63	4	1.07	0.09	-1.04	-0.43	1.96	3,503	0.82	20221114	SOLAR
Grindrod Shppng	3	GRIN	25.86	12.99	0.66	0.26	6	-0.22	-0.29	2	0.84	1.20	2.78	-0.14	0.00	498	1.87	20221116	TRANSPORTATION-SHIP
Flex Lng Ltd	3	FLNG	32.60	9.20	0.62	1.42	6	-0.22	-0.29	6	-0.07	0.03	0.44	-0.14	-0.41	1,735	1.36	20221115	TRANSPORTATION-SHIP
Copart Inc	3	CPRT	55.67	0.00	0.60	-1.21	6	1.37	-0.29	1	-0.52	0.36	0.09	1.45	0.00	26,507	0.22	20221116	AUCTION/VALUATION SERVICES
Copa Hldgs Sa-A	3	CPA	75.69	0.00	0.47	0.92	7	-1.52	1.71	4	1.38	0.29	-0.08	-1.45	1.96	3,174	1.53	20221116	TRANSPORTATION-AIRLINE
Aecom	3	ACM	75.25	0.80	-0.20	2.20	10	-0.22	-1.15	8	0.77	-0.46	-0.31	-0.14	-0.88	10,509	0.53	20221114	ENGINEERING/R&D SVCS
Griffon Corp	3	GFF	31.62	1.14	-0.24	1.26	10	-0.22	-0.63	6	-0.07	-0.12	0.15	-0.14	-0.47	1,804	2.69	20221115	DIVERSIFIED OPERATIONS
Zim Int Shp Srv	3	ZIM	23.17	82.00	-0.30	-1.09	10	1.37	-0.92	5	-1.51	0.61	1.00	1.45	-0.47	2,779	0.27	20221116	TRANSPORTATION-SHIP
Atkore Intl Grp	3	ATKR	94.36	0.00	-1.08	-0.07	14	-1.37	-0.29	2	0.39	0.15	0.98	-1.30	0.00	3,899	0.60	20221118	WIRE & CABLE PRODUCTS
Hillenbrand Inc	3	HI	43.62	1.99	-1.08	-0.07	14	-1.08	-0.29	2	0.39	-0.06	0.38	-1.01	0.00	3,030	2.23	20221116	INDUSTRIAL SERVICES
Brady Corp Cl A	3	BRC	46.63	1.97	-1.10	1.10	14	-1.08	-0.29	6	-0.07	-0.19	0.38	-1.01	-0.41	2,328	2.19	20221117	PROTECTION-SFTY EQ & SVC
Woodward Inc	3	WWD	94.80	0.80	-1.62	-1.22	16	0.36	-0.66	5	-1.96	-0.05	0.02	0.43	-0.47	5,704	0.92	20221117	INSTRUMENTS-CONTROL
Star Bulk Carrs	3	SBLK	19.33	34.14	-1.62	-1.22	16	0.07	-0.89	5	-1.96	-0.10	0.05	0.14	-0.47	1,977	0.82	20221116	TRANSPORTATION-SHIP
<b>Consumer Discr</b>																			
Tjx Cos Inc New	4	TJX	70.08	1.68	2.64	0.44	1	-0.22	2.04	2	1.72	1.44	1.20	-0.30	3.42	81,367	0.07	20221116	RETAIL-DISCOUNT & VARIETY
Jumia Tech-Adr	4	JMIA	3.67	0.00	2.61	0.44	1	-0.37	1.63	2	0.82	1.25	1.19	-0.45	3.00	367	2.75	20221117	ELECTRONIC COMMERCE
On Holding Ag	4	ONON	16.45	0.00	2.61	0.04	1	1.71	1.71	3	0.82	0.87	-1.62	1.64	2.59	10,237	0.78	20221116	LEISURE & RECREATION PROD
Bowlero Corp	4	BOWL	14.22	0.00	2.07	1.51	3	-0.67	1.26	4	2.28	0.67	-0.18	-0.74	2.92	2,361	2.79	20221116	LEISURE & RECREATION SVCS
Buckle Inc	4	BKE	38.21	3.66	2.01	0.36	3	-0.22	1.19	2	0.82	0.84	0.32	-0.30	2.50	1,914	1.68	20221118	RETAIL-APPAREL/SHOE
Jd.Com Inc-Adr	4	JD	42.46	0.00	1.96	-1.42	3	1.41	1.23	1	-0.52	1.64	1.08	1.34	2.50	57,228	0.05	20221118	ELECTRONIC COMMERCE
Bath&Body Works	4	BBWI	30.90	2.59	1.96	-1.42	3	1.41	0.74	1	-0.52	1.40	0.94	1.34	1.92	7,057	0.24	20221116	RETAIL-MISC/DIVERSIFIED
Target Corp	4	TGT	152.99	2.82	1.12	-0.16	6	1.71	0.26	3	0.82	0.96	-0.02	1.64	1.25	70,416	0.05	20221116	RETAIL-DISCOUNT & VARIETY
Farfetch Ltd	4	FTCH	7.23	0.00	1.12	0.24	6	-0.37	-0.29	2	0.82	0.55	1.52	-0.45	0.58	2,753	0.45	20221117	RETAIL-APPAREL/SHOE
Alibaba Group	4	BABA	64.84	0.00	1.12	0.24	6	-0.37	-0.40	2	0.82	0.55	2.00	-0.45	0.08	171,705	0.01	20221117	ELECTRONIC COMMERCE

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COMPANY	SECTOR	TICKER	PRICE	YIELD	iPScore	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	iPScore	VTCAVG	VSCORE	TSCORE					CSCORE
Lowe's Cos	4	LOW	186.63	2.25	1.04	-1.55	6	1.41	-0.18	1	-1.20	0.86	0.65	1.34	0.58	115,841	0.04	20221116	BLDG PROD-RETAIL/WHLSLE
Aramark Holding	4	ARMK	35.94	1.22	1.04	-1.55	6	1.56	-0.29	1	-1.20	0.85	0.49	1.49	0.58	9,262	0.37	20221115	FOOD-MISC/DIVERSIFIED
Home Depot	4	HD	286.75	2.65	0.77	-1.58	7	0.07	1.60	1	-0.52	1.45	1.33	0.00	3.00	293,554	0.02	20221115	BLDG PROD-RETAIL/WHLSLE
Global E Online	4	GLBE	18.35	0.00	-0.08	1.11	10	-0.07	-0.74	4	0.60	-0.37	-0.96	-0.15	0.00	2,856	1.06	20221116	ELECTRONIC COMMERCE
Ross Stores	4	ROST	91.32	1.36	-0.10	0.08	10	-0.67	-0.74	2	-0.08	0.27	1.54	-0.74	0.00	31,694	0.11	20221117	RETAIL-DISCOUNT & VARIETY
Kohls Corp	4	KSS	27.03	7.40	-0.15	-1.70	10	1.41	-0.89	1	-1.20	0.94	1.50	1.34	0.00	3,153	0.24	20221117	RETAIL-REGNL DEPT STRS
Childrens Place	4	PLCE	32.28	0.00	-0.15	-1.70	10	1.41	-0.89	1	-1.20	0.94	1.49	1.34	0.00	421	1.80	20221117	RETAIL-APPAREL/SHOE
Williams-Sonoma	4	WSM	115.23	2.71	-0.20	-0.45	10	1.71	-1.18	5	-2.32	0.43	0.14	1.64	-0.50	7,687	0.21	20221117	RETAIL-HOME FURNISHINGS
Foot Locker Inc	4	FL	29.92	5.35	-0.75	-1.78	12	0.97	-0.29	1	-1.20	0.89	1.19	0.89	0.58	2,792	0.37	20221118	RETAIL-APPAREL/SHOE
Gap Inc	4	GPS	10.62	5.65	-1.29	-0.08	14	-1.71	-0.03	2	-0.08	0.11	0.88	-1.79	1.25	3,862	0.29	20221117	RETAIL-APPAREL/SHOE
Tata Motors-Adr	4	TTM	26.40	0.00	-1.29	-0.08	14	-1.41	0.00	2	-0.08	-0.03	0.16	-1.49	1.25	20,218	1.05	20221114	AUTO MFRS-FOREIGN
Victorias Secrt	4	VSCO	38.20	0.00	-1.34	-1.86	14	0.07	0.00	1	-1.20	1.17	1.68	0.00	1.84	3,104	0.59	20221116	LEISURE & RECREATION PROD
Advance Auto Pt	4	AAP	175.35	3.42	-1.34	-1.86	14	0.37	-0.33	1	-1.20	0.52	0.68	0.30	0.58	10,542	0.19	20221115	RETAIL/WHLSLE-AUTO PARTS
Rlx Technology	4	RLX	1.34	0.00	-1.89	-0.16	16	-1.71	-0.77	2	-0.08	0.00	1.77	-1.79	0.00	2,081	1.29	20221116	CONSUMER PROD-MISC DISCRECTN
Sonos Inc	4	SONO	15.17	0.00	-1.92	-0.16	16	-1.71	-0.81	2	-0.86	-0.44	0.46	-1.79	0.00	1,930	0.86	20221116	AUDIO/VIDEO HOME PROD
Macys Inc	4	M	18.75	3.36	-1.96	-1.83	16	0.37	-0.81	1	-1.76	0.46	1.09	0.30	0.00	5,081	0.14	20221117	RETAIL-REGNL DEPT STRS
<b>Consumer Staple</b>																			
Bjs Wholesale	5	BJ	77.59	0.00	1.69	-0.67	1	1.56	1.67	3	0.17	0.89	-0.04	1.19	1.85	10,480	0.22	20221117	CONS SERVICES - MISC
Post Holdings	5	POST	88.88	0.00	0.70	-0.86	6	1.56	-0.29	3	-0.46	0.30	-0.38	1.19	0.00	5,311	0.66	20221117	FOOD-MISC/DIVERSIFIED
Spectrum Br-Hld	5	SPB	46.24	3.63	0.70	-0.86	6	1.41	-0.48	3	-0.46	0.27	-0.32	1.04	0.00	1,885	1.12	20221118	CONSUMER PROD-MISC DISCRECTN
Walmart Inc	5	WMT	139.47	1.61	0.59	1.28	7	0.22	2.08	4	1.89	0.20	-0.77	-0.15	2.17	378,555	0.03	20221115	RETAIL-SUPERMARKETS
Tyson Foods A	5	TSN	64.11	2.87	-0.09	-0.74	10	1.41	-0.85	5	-1.18	0.45	0.45	1.04	-0.45	23,056	0.15	20221114	FOOD-MEAT PRODUCTS
Bellring Brands	5	BRBR	24.95	0.00	-0.21	1.13	11	0.22	1.19	4	1.26	-0.57	-2.34	-0.15	1.47	3,399	1.33	20221117	MEDICAL PRODUCTS
Krispy Kreme	5	DNUT	14.16	0.99	-0.76	1.02	14	0.22	-0.44	4	1.89	-0.17	-0.30	-0.15	0.00	2,371	2.02	20221115	CONSUMER PROD-MISC STAPLES
Energizer Hldgs	5	ENR	28.30	4.24	-1.19	1.04	16	0.07	-0.74	6	0.72	0.14	0.98	-0.30	-0.45	2,017	1.84	20221115	CONSUMER PROD-MISC STAPLES
<b>Health Care</b>																			
Chinook Therap	6	KDNY	21.95	0.00	0.98	-0.37	3	1.52	1.19	3	-0.45	-0.37	-4.13	1.60	1.43	1,211	2.01	20221114	MEDICAL-DRUGS
Legend Biotech	6	LEGN	51.50	0.00	0.39	1.22	6	-0.22	-0.26	4	0.96	-0.56	-1.55	-0.15	0.00	8,451	0.60	20221115	MEDICAL-BIOMED/GENETICS
Azenta Inc	6	AZTA	40.72	0.25	-0.51	-0.90	10	1.67	-0.89	5	-0.14	2.07	4.92	1.74	-0.43	3,055	0.67	20221114	MEDICAL INFORMATION SYSTEMS
Twist Bioscienc	6	TWST	28.42	0.00	-0.57	0.07	10	-0.07	-0.74	7	-1.46	-0.24	-0.29	0.00	-0.43	1,602	1.06	20221118	MEDICAL-BIOMED/GENETICS
<b>Financials</b>																			
Banco Sant-Ads	7	BSBR	5.59	3.66	-0.17	1.04	10	-0.07	-1.33	6	-0.52	-0.12	0.18	-0.14	-0.41	20,870	2.07	20221116	BANKS-FOREIGN
<b>Info Technology</b>																			
Vipshop Holdngs	8	VIPS	7.66	0.00	1.57	1.00	1	-0.07	1.63	4	1.49	0.27	-0.13	-0.14	1.88	5,201	0.60	20221117	INTERNET SERVICES - DELIVERY
Knowbe4 Inc	8	KNBE	24.61	0.00	1.55	1.15	1	-0.63	1.71	4	1.15	-0.73	-2.07	-0.70	1.88	4,299	0.50	20221116	PROTECTION-SFTY EQ & SVC
Tower Semicond	8	TSEM	39.99	0.00	1.55	0.04	1	1.34	2.04	3	0.98	0.89	-0.15	1.27	2.21	4,370	1.18	20221114	ELEC-SEMICONDUCTORS
Tencent Mus-Adr	8	TME	3.66	0.00	1.54	0.40	1	-0.35	1.71	2	0.89	0.38	0.43	-0.42	1.88	6,204	0.71	20221115	INTERNET CONTENT
Palo Alto Netwk	8	PANW	151.57	0.00	1.53	-0.06	1	1.62	1.71	3	0.47	0.78	-0.55	1.55	1.88	45,531	0.04	20221117	SECURITY

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							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	iPScore	VCAVG	VSCORE	TSCORE					CSCORE
Monday.Com Ltd	8	MNDY	76.46	0.00	1.53	-0.06	1	1.34	1.63	3	0.47	0.57	-0.80	1.27	1.88	3,376	0.53	20221114	INTERNET SOFTWARE
Keysight Tech	8	KEYS	161.02	0.00	1.34	1.12	2	-0.49	1.63	4	1.15	-0.22	-0.92	-0.56	1.88	28,790	0.16	20221117	ELEC MEASRNG INSTRUMENTS
Nu Holdings Ltd	8	NU	4.69	0.00	1.14	0.93	3	-0.07	1.26	4	1.49	0.21	-0.07	-0.14	1.49	21,621	0.18	20221114	TECHNOLOGY SERVICES
Globant Sa	8	GLOB	165.74	0.00	1.14	0.93	3	-0.07	0.78	4	1.49	0.15	-0.01	-0.14	1.04	6,943	0.46	20221117	INTERNET SOFTWARE/SVCS
Clear Secure	8	YOU	22.67	0.00	1.13	1.08	3	-0.35	1.26	4	1.15	-0.23	-0.90	-0.42	1.49	3,400	1.69	20221114	PROTECTION-SFTY EQ & SVC
Sea Ltd-Adr	8	SE	40.92	0.00	1.12	0.33	3	-0.35	1.26	2	0.89	0.37	0.59	-0.42	1.49	22,823	0.11	20221115	INTERNET SOFTWARE
Netease Inc	8	NTES	59.22	2.41	1.12	0.33	3	-0.35	0.78	2	0.89	0.14	0.24	-0.42	1.04	38,775	0.18	20221117	INTERNET SOFTWARE/SVCS
Sigma Lithium	8	SGML	34.71	0.00	1.10	-0.13	3	1.48	1.26	3	0.47	0.69	-0.43	1.41	1.49	3,506	0.86	20221115	ELEC PRODUCTS-MISC
Dlocal Ltd	8	DLO	19.11	0.00	0.50	0.98	6	-0.35	-0.22	4	1.15	-0.76	-1.48	-0.42	0.00	5,638	1.48	20221114	FINANCIAL TRANSACTION SERVICES
Endava Plc	8	DAVA	63.93	0.00	0.47	-0.23	6	1.34	0.04	3	0.47	0.52	-0.22	1.27	0.52	3,562	1.40	20221115	IT SERVICES
Grab Hldgs Ltd	8	GRAB	2.59	0.00	0.40	-1.40	6	1.34	-0.44	1	-1.23	0.69	0.45	1.27	0.00	9,692	0.78	20221116	TECHNOLOGY SERVICES
Rumble Inc	8	RUM	12.05	0.00	-0.36	1.90	10	-0.21	-0.66	8	0.81	-0.34	-0.33	-0.28	-0.45	460	0.65	20221114	INTERNET SOFTWARE
360 Digitech	8	QFIN	12.38	5.49	-0.37	1.09	10	-0.35	-0.74	6	0.47	0.29	1.37	-0.42	-0.45	1,885	1.84	20221114	TECHNOLOGY SERVICES
Weibo Corp Ads	8	WB	12.25	0.00	-0.37	1.09	10	-0.35	-1.37	6	0.47	0.02	0.89	-0.42	-0.84	2,898	1.59	20221117	INTERNET CONTENT
Dolby Lab Inc-A	8	DLB	66.36	1.51	-0.42	0.07	10	1.34	-0.66	7	-0.63	0.19	-0.56	1.27	-0.45	6,695	0.87	20221117	AUDIO/VIDEO HOME PROD
Full Truck Alnc	8	YMM	5.10	0.00	-0.46	-0.94	10	1.34	-0.66	5	-1.74	0.71	0.73	1.27	-0.45	5,538	0.91	20221117	TECHNOLOGY SERVICES
Ionq Inc	8	IONQ	4.61	0.00	-0.46	-0.94	10	1.34	-0.66	5	-1.74	0.53	0.29	1.27	-0.45	913	2.48	20221114	COMPUTER-INTEGRATED SYSTEMS
Cisco Systems	8	CSCO	43.91	3.46	-0.59	-0.41	11	0.07	1.19	3	0.47	0.28	-0.05	0.00	1.49	180,419	0.03	20221116	COMPUTER-NETWORKS
Clearfield Inc	8	CLFD	87.26	0.00	-1.05	-0.03	13	1.20	-0.66	7	-0.63	0.04	-0.80	1.13	-0.45	1,202	1.17	20221117	WIRELESS EQUIPMENT
Stoneco Ltd	8	STNE	10.23	0.00	-1.22	-0.06	14	-1.06	0.23	2	0.38	-0.33	0.05	-1.13	0.52	3,197	0.45	20221117	INTERNET SOFTWARE
Appld Matls Inc	8	AMAT	94.38	1.10	-1.71	-0.14	16	0.35	-1.33	7	-1.31	-0.15	-0.24	0.28	-0.84	81,196	0.03	20221117	SEMI-EQPT WAFER FAB
Nvidia Corp	8	NVDA	137.76	0.12	-1.71	-0.14	16	0.35	-0.89	7	-1.31	-0.54	-1.41	0.28	-0.45	343,022	0.00	20221116	SEMI-GENERAL
Kulicke & Soffa	8	KLIC	42.89	1.59	-1.73	-1.15	16	0.07	-0.70	5	-1.74	0.12	0.52	0.00	-0.45	2,491	1.17	20221116	ELECTRONICS-MANUFACTURING MACH
<b>Communication Svcs</b>																			
Joyy Inc	9	YY	25.36	8.00	1.73	-1.17	1	1.32	1.71	1	-0.93	1.25	1.03	1.11	2.69	1,977	1.69	20221116	INTERNET SERVICES
Iqiyi Inc-Adr	9	IQ	2.02	0.00	0.71	1.18	6	-0.35	-0.33	4	1.39	-0.20	-0.01	-0.56	0.47	1,616	0.95	20221116	MOVIE/TV PRODUCTION/DISTRIB
<b>Utilities</b>																			
Eletrabras-Adr	10	EBR	9.36	1.37	1.53	-1.35	1	1.74	1.63	1	-0.34	0.72	0.35	0.17	2.01	14,685	0.76	20221115	UTILITY-ELECTRIC POWER
Nj Resources	10	NJR	43.92	3.55	0.19	-0.24	7	0.08	2.11	4	-0.49	-0.24	-0.92	-1.49	2.35	4,226	0.94	20221117	UTILITY-GAS DISTRIBUTION
Ugi Corp	10	UGI	35.19	4.09	-1.37	-0.58	14	0.08	-0.18	4	-0.49	-0.40	-0.06	-1.49	0.00	7,390	0.54	20221117	UTILITY-GAS DISTRIBUTION
<b>Real Estate</b>																			
Ke Holdings Inc	11	BEKE	10.41	0.00	1.43	0.77	3	-0.35	0.82	2	1.59	0.16	1.03	-1.66	1.12	12,401	0.16	20221114	REAL ESTATE OPERATIONS

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SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

	COMPANY	SECTOR	TICKER	PRICE	YIELD	iPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
								ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
<b>Energy</b>																				
<b>OIL &amp; GAS-DRILLNG</b>																				
	Helmerich&Payne	1	HP	48.30	2.07	0.81	1.05	3	-0.23	0.82	8	-1.24	-0.56	-0.72	-0.31	-0.46	5,086	0.50	20221116	OIL & GAS-DRILLNG
<b>OTHER ALT ENERGY</b>																				
	Freyr Battery	1	FREY	12.41	0.00	-0.43	1.78	9	-0.54	-0.18	6	-0.58	-0.71	0.06	-0.61	-1.52	1,445	1.24	20221114	OTHER ALT ENERGY
	Renew Egy Gbl	1	RNW	6.17	0.00	-0.65	1.71	10	-0.38	-0.89	6	-0.58	-0.89	0.08	-0.46	-1.98	2,473	2.31	20221115	OTHER ALT ENERGY
<b>Materials</b>																				
<b>CHEMICALS-SPECIALTY</b>																				
	Valvoline Inc	2	VVV	30.67	1.63	-0.16	0.80	11	-1.43	1.15	4	0.89	0.05	-0.22	-1.36	1.73	5,429	0.52	20221115	CHEMICALS-SPECIALTY
<b>CONTAINERS-PAPER/PLASTIC</b>																				
	Berry Globl Grp	2	BERY	48.68	0.00	-0.02	-0.84	10	1.29	-0.70	5	-0.78	0.41	0.40	1.36	-0.53	6,586	0.72	20221115	CONTAINERS-PAPER/PLASTIC
<b>FERTILIZERS</b>																				
	Soc Quimica Min	2	SQM	103.23	4.67	1.65	0.78	3	-0.20	1.26	2	1.66	0.96	1.28	-0.14	1.73	29,486	0.15	20221116	FERTILIZERS
<b>MEDICAL-BIOMED/GENETICS</b>																				
	Ginkgo Bioworks	2	DNA	2.30	0.00	-0.08	-0.52	10	1.29	-1.37	7	-1.97	-0.22	-0.74	1.36	-1.28	4,105	0.46	20221114	MEDICAL-BIOMED/GENETICS
<b>MINING-MISC</b>																				
	Ferroglobe Plc	2	GSM	5.66	0.00	2.07	-0.14	1	1.29	2.11	1	1.10	1.42	0.34	1.36	2.56	1,060	2.86	20221115	MINING-MISC
	Bhp Group Ltd	2	BHP	52.10	13.38	-0.86	-1.28	14	0.34	0.15	1	0.19	0.36	0.06	0.41	0.60	76,854	0.11	20221115	MINING-MISC
<b>STEEL-PRODUCERS</b>																				
	Cia Siderur-Adr	2	SID	2.64	10.29	-0.85	0.79	14	-1.29	-0.03	4	0.47	-0.45	-0.73	-1.23	0.60	3,663	2.09	20221116	STEEL-PRODUCERS
	Gerdau Sa Adr	2	GGB	5.50	10.12	-1.32	1.97	16	-1.02	-1.29	8	-0.02	-0.80	-0.46	-0.95	-0.98	9,458	0.37	20221116	STEEL-PRODUCERS
<b>Industrials</b>																				
<b>AUCTION/VALUATION SERVICES</b>																				
	Copart Inc	3	CPRT	55.67	0.00	0.60	-1.21	6	1.37	-0.29	1	-0.52	0.36	0.09	1.45	0.00	26,507	0.22	20221116	AUCTION/VALUATION SERVICES
<b>DIVERSIFIED OPERATIONS</b>																				
	Griffon Corp	3	GFF	31.62	1.14	-0.24	1.26	10	-0.22	-0.63	6	-0.07	-0.12	0.15	-0.14	-0.47	1,804	2.69	20221115	DIVERSIFIED OPERATIONS
<b>ENGINEERING/R&amp;D SVCS</b>																				
	Aecom	3	ACM	75.25	0.80	-0.20	2.20	10	-0.22	-1.15	8	0.77	-0.46	-0.31	-0.14	-0.88	10,509	0.53	20221114	ENGINEERING/R&D SVCS
<b>INDUSTRIAL SERVICES</b>																				
	Hillenbrand Inc	3	HI	43.62	1.99	-1.08	-0.07	14	-1.08	-0.29	2	0.39	-0.06	0.38	-1.01	0.00	3,030	2.23	20221116	INDUSTRIAL SERVICES
<b>INSTRUMENTS-CONTROL</b>																				
	Woodward Inc	3	WWD	94.80	0.80	-1.62	-1.22	16	0.36	-0.66	5	-1.96	-0.05	0.02	0.43	-0.47	5,704	0.92	20221117	INSTRUMENTS-CONTROL
<b>PROTECTION-SFTY EQ &amp; SVC</b>																				
	Brady Corp Cl A	3	BRC	46.63	1.97	-1.10	1.10	14	-1.08	-0.29	6	-0.07	-0.19	0.38	-1.01	-0.41	2,328	2.19	20221117	PROTECTION-SFTY EQ & SVC
<b>SOLAR</b>																				
	Shoals Technol	3	SHLS	20.95	0.00	1.53	1.30	2	-0.51	1.63	4	1.07	0.09	-1.04	-0.43	1.96	3,503	0.82	20221114	SOLAR
<b>TRANSPORTATION-AIRLINE</b>																				
	Copa Hldgs Sa-A	3	CPA	75.69	0.00	0.47	0.92	7	-1.52	1.71	4	1.38	0.29	-0.08	-1.45	1.96	3,174	1.53	20221116	TRANSPORTATION-AIRLINE
<b>TRANSPORTATION-SHIP</b>																				

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	COMPANY	SECTOR	TICKER	PRICE	YIELD	iPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
								ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
	Grindrod Shppng	3	GRIN	25.86	12.99	0.66	0.26	6	-0.22	-0.29	2	0.84	1.20	2.78	-0.14	0.00	498	1.87	20221116	TRANSPORTATION-SHIP
	Flex Lng Ltd	3	FLNG	32.60	9.20	0.62	1.42	6	-0.22	-0.29	6	-0.07	0.03	0.44	-0.14	-0.41	1,735	1.36	20221115	TRANSPORTATION-SHIP
	Zim Int Shp Srv	3	ZIM	23.17	82.00	-0.30	-1.09	10	1.37	-0.92	5	-1.51	0.61	1.00	1.45	-0.47	2,779	0.27	20221116	TRANSPORTATION-SHIP
	Star Bulk Carrs	3	SBLK	19.33	34.14	-1.62	-1.22	16	0.07	-0.89	5	-1.96	-0.10	0.05	0.14	-0.47	1,977	0.82	20221116	TRANSPORTATION-SHIP
	<b>WIRE &amp; CABLE PRODUCTS</b>																			
	Atkore Intl Grp	3	ATKR	94.36	0.00	-1.08	-0.07	14	-1.37	-0.29	2	0.39	0.15	0.98	-1.30	0.00	3,899	0.60	20221118	WIRE & CABLE PRODUCTS
	<b>Consumer Discr</b>																			
	<b>AUDIO/VIDEO HOME PROD</b>																			
	Sonos Inc	4	SONO	15.17	0.00	-1.92	-0.16	16	-1.71	-0.81	2	-0.86	-0.44	0.46	-1.79	0.00	1,930	0.86	20221116	AUDIO/VIDEO HOME PROD
	<b>AUTO MFRS-FOREIGN</b>																			
	Tata Motors-Adr	4	TTM	26.40	0.00	-1.29	-0.08	14	-1.41	0.00	2	-0.08	-0.03	0.16	-1.49	1.25	20,218	1.05	20221114	AUTO MFRS-FOREIGN
	<b>BLDG PROD-RETAIL/WHLSLE</b>																			
	Lowes Cos	4	LOW	186.63	2.25	1.04	-1.55	6	1.41	-0.18	1	-1.20	0.86	0.65	1.34	0.58	115,841	0.04	20221116	BLDG PROD-RETAIL/WHLSLE
	Home Depot	4	HD	286.75	2.65	0.77	-1.58	7	0.07	1.60	1	-0.52	1.45	1.33	0.00	3.00	293,554	0.02	20221115	BLDG PROD-RETAIL/WHLSLE
	<b>CONSUMER PROD-MISC DISCRECTN</b>																			
	Rlx Technology	4	RLX	1.34	0.00	-1.89	-0.16	16	-1.71	-0.77	2	-0.08	0.00	1.77	-1.79	0.00	2,081	1.29	20221116	CONSUMER PROD-MISC DISCRECTN
	<b>ELECTRONIC COMMERCE</b>																			
	Jumia Tech-Adr	4	JMIA	3.67	0.00	2.61	0.44	1	-0.37	1.63	2	0.82	1.25	1.19	-0.45	3.00	367	2.75	20221117	ELECTRONIC COMMERCE
	Jd.Com Inc-Adr	4	JD	42.46	0.00	1.96	-1.42	3	1.41	1.23	1	-0.52	1.64	1.08	1.34	2.50	57,228	0.05	20221118	ELECTRONIC COMMERCE
	Alibaba Group	4	BABA	64.84	0.00	1.12	0.24	6	-0.37	-0.40	2	0.82	0.55	2.00	-0.45	0.08	171,705	0.01	20221117	ELECTRONIC COMMERCE
	Global E Online	4	GLBE	18.35	0.00	-0.08	1.11	10	-0.07	-0.74	4	0.60	-0.37	-0.96	-0.15	0.00	2,856	1.06	20221116	ELECTRONIC COMMERCE
	<b>FOOD-MISC/DIVERSIFIED</b>																			
	Aramark Holding	4	ARMK	35.94	1.22	1.04	-1.55	6	1.56	-0.29	1	-1.20	0.85	0.49	1.49	0.58	9,262	0.37	20221115	FOOD-MISC/DIVERSIFIED
	<b>LEISURE &amp; RECREATION PROD</b>																			
	On Holding Ag	4	ONON	16.45	0.00	2.61	0.04	1	1.71	1.71	3	0.82	0.87	-1.62	1.64	2.59	10,237	0.78	20221116	LEISURE & RECREATION PROD
	Victorias Sect	4	VSCO	38.20	0.00	-1.34	-1.86	14	0.07	0.00	1	-1.20	1.17	1.68	0.00	1.84	3,104	0.59	20221116	LEISURE & RECREATION PROD
	<b>LEISURE &amp; RECREATION SVCS</b>																			
	Bowlero Corp	4	BOWL	14.22	0.00	2.07	1.51	3	-0.67	1.26	4	2.28	0.67	-0.18	-0.74	2.92	2,361	2.79	20221116	LEISURE & RECREATION SVCS
	<b>RETAIL-APPAREL/SHOE</b>																			
	Buckle Inc	4	BKE	38.21	3.66	2.01	0.36	3	-0.22	1.19	2	0.82	0.84	0.32	-0.30	2.50	1,914	1.68	20221118	RETAIL-APPAREL/SHOE
	Farfetch Ltd	4	FTCH	7.23	0.00	1.12	0.24	6	-0.37	-0.29	2	0.82	0.55	1.52	-0.45	0.58	2,753	0.45	20221117	RETAIL-APPAREL/SHOE
	Childrens Place	4	PLCE	32.28	0.00	-0.15	-1.70	10	1.41	-0.89	1	-1.20	0.94	1.49	1.34	0.00	421	1.80	20221117	RETAIL-APPAREL/SHOE
	Foot Locker Inc	4	FL	29.92	5.35	-0.75	-1.78	12	0.97	-0.29	1	-1.20	0.89	1.19	0.89	0.58	2,792	0.37	20221118	RETAIL-APPAREL/SHOE
	Gap Inc	4	GPS	10.62	5.65	-1.29	-0.08	14	-1.71	-0.03	2	-0.08	0.11	0.88	-1.79	1.25	3,862	0.29	20221117	RETAIL-APPAREL/SHOE
	<b>RETAIL-DISCOUNT &amp; VARIETY</b>																			
	Tjx Cos Inc New	4	TJX	70.08	1.68	2.64	0.44	1	-0.22	2.04	2	1.72	1.44	1.20	-0.30	3.42	81,367	0.07	20221116	RETAIL-DISCOUNT & VARIETY
	Target Corp	4	TGT	152.99	2.82	1.12	-0.16	6	1.71	0.26	3	0.82	0.96	-0.02	1.64	1.25	70,416	0.05	20221116	RETAIL-DISCOUNT & VARIETY
	Ross Stores	4	ROST	91.32	1.36	-0.10	0.08	10	-0.67	-0.74	2	-0.08	0.27	1.54	-0.74	0.00	31,694	0.11	20221117	RETAIL-DISCOUNT & VARIETY

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	COMPANY	SECTOR	TICKER	PRICE	YIELD	iPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
								ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
<b>RETAIL-HOME FURNISHINGS</b>																				
	Williams-Sonoma	4	WSM	115.23	2.71	-0.20	-0.45	10	1.71	-1.18	5	-2.32	0.43	0.14	1.64	-0.50	7,687	0.21	20221117	RETAIL-HOME FURNISHINGS
<b>RETAIL-MISC/DIVERSIFIED</b>																				
	Bath&Body Works	4	BBWI	30.90	2.59	1.96	-1.42	3	1.41	0.74	1	-0.52	1.40	0.94	1.34	1.92	7,057	0.24	20221116	RETAIL-MISC/DIVERSIFIED
<b>RETAIL-REGNL DEPT STRS</b>																				
	Kohls Corp	4	KSS	27.03	7.40	-0.15	-1.70	10	1.41	-0.89	1	-1.20	0.94	1.50	1.34	0.00	3,153	0.24	20221117	RETAIL-REGNL DEPT STRS
	Macys Inc	4	M	18.75	3.36	-1.96	-1.83	16	0.37	-0.81	1	-1.76	0.46	1.09	0.30	0.00	5,081	0.14	20221117	RETAIL-REGNL DEPT STRS
<b>RETAIL/WHLSLE-AUTO PARTS</b>																				
	Advance Auto Pt	4	AAP	175.35	3.42	-1.34	-1.86	14	0.37	-0.33	1	-1.20	0.52	0.68	0.30	0.58	10,542	0.19	20221115	RETAIL/WHLSLE-AUTO PARTS
<b>Consumer Staple</b>																				
<b>CONS SERVICES - MISC</b>																				
	Bjs Wholesale	5	BJ	77.59	0.00	1.69	-0.67	1	1.56	1.67	3	0.17	0.89	-0.04	1.19	1.85	10,480	0.22	20221117	CONS SERVICES - MISC
<b>CONSUMER PROD-MISC DISCRECTN</b>																				
	Spectrum Br-Hld	5	SPB	46.24	3.63	0.70	-0.86	6	1.41	-0.48	3	-0.46	0.27	-0.32	1.04	0.00	1,885	1.12	20221118	CONSUMER PROD-MISC DISCRECTN
<b>CONSUMER PROD-MISC STAPLES</b>																				
	Krispy Kreme	5	DNUT	14.16	0.99	-0.76	1.02	14	0.22	-0.44	4	1.89	-0.17	-0.30	-0.15	0.00	2,371	2.02	20221115	CONSUMER PROD-MISC STAPLES
	Energizer Hldgs	5	ENR	28.30	4.24	-1.19	1.04	16	0.07	-0.74	6	0.72	0.14	0.98	-0.30	-0.45	2,017	1.84	20221115	CONSUMER PROD-MISC STAPLES
<b>FOOD-MEAT PRODUCTS</b>																				
	Tyson Foods A	5	TSN	64.11	2.87	-0.09	-0.74	10	1.41	-0.85	5	-1.18	0.45	0.45	1.04	-0.45	23,056	0.15	20221114	FOOD-MEAT PRODUCTS
<b>FOOD-MISC/DIVERSIFIED</b>																				
	Post Holdings	5	POST	88.88	0.00	0.70	-0.86	6	1.56	-0.29	3	-0.46	0.30	-0.38	1.19	0.00	5,311	0.66	20221117	FOOD-MISC/DIVERSIFIED
<b>MEDICAL PRODUCTS</b>																				
	Bellring Brands	5	BRBR	24.95	0.00	-0.21	1.13	11	0.22	1.19	4	1.26	-0.57	-2.34	-0.15	1.47	3,399	1.33	20221117	MEDICAL PRODUCTS
<b>RETAIL-SUPERMARKETS</b>																				
	Walmart Inc	5	WMT	139.47	1.61	0.59	1.28	7	0.22	2.08	4	1.89	0.20	-0.77	-0.15	2.17	378,555	0.03	20221115	RETAIL-SUPERMARKETS
<b>Health Care</b>																				
<b>MEDICAL INFORMATION SYSTEMS</b>																				
	Azenta Inc	6	AZTA	40.72	0.25	-0.51	-0.90	10	1.67	-0.89	5	-0.14	2.07	4.92	1.74	-0.43	3,055	0.67	20221114	MEDICAL INFORMATION SYSTEMS
<b>MEDICAL-BIOMED/GENETICS</b>																				
	Legend Biotech	6	LEGN	51.50	0.00	0.39	1.22	6	-0.22	-0.26	4	0.96	-0.56	-1.55	-0.15	0.00	8,451	0.60	20221115	MEDICAL-BIOMED/GENETICS
	Twist Bioscienc	6	TWST	28.42	0.00	-0.57	0.07	10	-0.07	-0.74	7	-1.46	-0.24	-0.29	0.00	-0.43	1,602	1.06	20221118	MEDICAL-BIOMED/GENETICS
<b>MEDICAL-DRUGS</b>																				
	Chinook Therap	6	KDNY	21.95	0.00	0.98	-0.37	3	1.52	1.19	3	-0.45	-0.37	-4.13	1.60	1.43	1,211	2.01	20221114	MEDICAL-DRUGS
<b>Financials</b>																				
<b>BANKS-FOREIGN</b>																				
	Banco Sant-Ads	7	BSBR	5.59	3.66	-0.17	1.04	10	-0.07	-1.33	6	-0.52	-0.12	0.18	-0.14	-0.41	20,870	2.07	20221116	BANKS-FOREIGN
<b>Info Technology</b>																				
<b>AUDIO/VIDEO HOME PROD</b>																				





Date: 11-09-2022

Stocks are grouped by INDUSTRY WITHIN SECTORS and sorted from most to least attractive based on integrated Polaris Score = iPScore (see "Report Headings" tab).

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

	COMPANY	SECTOR	TICKER	PRICE	YIELD	iPScore	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
								ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPScore	VTCAVG	VSCORE	TSCORE					CSCORE
	Nvidia Corp	8	NVDA	137.76	0.12	-1.71	-0.14	16	0.35	-0.89	7	-1.31	-0.54	-1.41	0.28	-0.45	343,022	0.00	20221116	SEMI-GENERAL
	<b>TECHNOLOGY SERVICES</b>																			
	Nu Holdings Ltd	8	NU	4.69	0.00	1.14	0.93	3	-0.07	1.26	4	1.49	0.21	-0.07	-0.14	1.49	21,621	0.18	20221114	TECHNOLOGY SERVICES
	Grab Hldgs Ltd	8	GRAB	2.59	0.00	0.40	-1.40	6	1.34	-0.44	1	-1.23	0.69	0.45	1.27	0.00	9,692	0.78	20221116	TECHNOLOGY SERVICES
	360 Digitech	8	QFIN	12.38	5.49	-0.37	1.09	10	-0.35	-0.74	6	0.47	0.29	1.37	-0.42	-0.45	1,885	1.84	20221114	TECHNOLOGY SERVICES
	Full Truck Alnc	8	YMM	5.10	0.00	-0.46	-0.94	10	1.34	-0.66	5	-1.74	0.71	0.73	1.27	-0.45	5,538	0.91	20221117	TECHNOLOGY SERVICES
	<b>WIRELESS EQUIPMENT</b>																			
	Clearfield Inc	8	CLFD	87.26	0.00	-1.05	-0.03	13	1.20	-0.66	7	-0.63	0.04	-0.80	1.13	-0.45	1,202	1.17	20221117	WIRELESS EQUIPMENT
	<b>Communication Svcs</b>																			
	<b>INTERNET SERVICES</b>																			
	Joyy Inc	9	YY	25.36	8.00	1.73	-1.17	1	1.32	1.71	1	-0.93	1.25	1.03	1.11	2.69	1,977	1.69	20221116	INTERNET SERVICES
	<b>MOVIE/TV PRODUCTION/DISTRIB</b>																			
	Iqiyi Inc-Adr	9	IQ	2.02	0.00	0.71	1.18	6	-0.35	-0.33	4	1.39	-0.20	-0.01	-0.56	0.47	1,616	0.95	20221116	MOVIE/TV PRODUCTION/DISTRIB
	<b>Utilities</b>																			
	<b>UTILITY-ELECTRIC POWER</b>																			
	Eletrabras-Adr	10	EBR	9.36	1.37	1.53	-1.35	1	1.74	1.63	1	-0.34	0.72	0.35	0.17	2.01	14,685	0.76	20221115	UTILITY-ELECTRIC POWER
	<b>UTILITY-GAS DISTRIBUTION</b>																			
	Nj Resources	10	NJR	43.92	3.55	0.19	-0.24	7	0.08	2.11	4	-0.49	-0.24	-0.92	-1.49	2.35	4,226	0.94	20221117	UTILITY-GAS DISTRIBUTION
	Ugi Corp	10	UGI	35.19	4.09	-1.37	-0.58	14	0.08	-0.18	4	-0.49	-0.40	-0.06	-1.49	0.00	7,390	0.54	20221117	UTILITY-GAS DISTRIBUTION
	<b>Real Estate</b>																			
	<b>REAL ESTATE OPERATIONS</b>																			
	Ke Holdings Inc	11	BEKE	10.41	0.00	1.43	0.77	3	-0.35	0.82	2	1.59	0.16	1.03	-1.66	1.12	12,401	0.16	20221114	REAL ESTATE OPERATIONS

Date: 11-09-2022

Cross Sector Analysis - Stocks are ranked from most to least attractive **INDEPENDENT OF SECTOR GROUPING**

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	XSEC IPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	IPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
Jumia Tech-Adr	4	JMIA	3.67	0.00	1.79	0.92	1	-0.36	1.63	4	1.55	0.51	-0.05	-0.43	1.84	367	2.75	20221117	ELECTRONIC COMMERCE
Knowbe4 Inc	8	KNBE	24.61	0.00	1.77	1.37	1	-0.64	1.71	4	1.17	0.06	-1.17	-0.71	1.84	4,299	0.50	20221116	PROTECTION-SFTY EQ & SVC
Tjx Cos Inc New	4	TJX	70.08	1.68	1.76	0.48	1	-0.21	2.04	2	0.86	0.83	0.47	-0.29	2.13	81,367	0.07	20221116	RETAIL-DISCOUNT & VARIETY
Tencent Mus-Adr	8	TME	3.66	0.00	1.76	0.48	1	-0.36	1.71	2	0.86	0.75	0.70	-0.43	1.84	6,204	0.71	20221115	INTERNET CONTENT
Vipshop Holdngs	8	VIPS	7.66	0.00	1.76	0.78	1	-0.07	1.63	2	0.86	0.68	0.19	-0.14	1.84	5,201	0.60	20221117	INTERNET SERVICES - DELIVERY
Palo Alto Netwk	8	PANW	151.57	0.00	1.74	-0.06	1	1.64	1.71	3	0.40	1.16	-0.02	1.57	1.84	45,531	0.04	20221117	SECURITY
Eletrbras-Adr	10	EBR	9.36	1.37	1.74	-0.34	1	1.50	1.63	3	0.40	0.98	-0.45	1.43	1.84	14,685	0.76	20221115	UTILITY-ELECTRIC POWER
Tower Semicond	8	TSEM	39.99	0.00	1.74	-0.06	1	1.36	2.04	3	0.40	0.92	-0.81	1.29	2.13	4,370	1.18	20221114	ELEC-SEMICONDUCTORS
On Holding Ag	4	ONON	16.45	0.00	1.74	-0.06	1	1.64	1.71	3	0.40	0.84	-1.01	1.57	1.84	10,237	0.78	20221116	LEISURE & RECREATION PROD
Monday.Com Ltd	8	MNDY	76.46	0.00	1.74	-0.06	1	1.36	1.63	3	0.40	0.81	-0.81	1.29	1.84	3,376	0.53	20221114	INTERNET SOFTWARE
Ferroglobe Plc	2	GSM	5.66	0.00	1.67	-1.25	1	1.36	2.11	1	-1.13	1.26	0.27	1.29	2.13	1,060	2.86	20221115	MINING-MISC
Joyy Inc	9	YY	25.36	8.00	1.67	-1.37	1	1.36	1.71	1	-1.13	1.26	0.34	1.29	2.06	1,977	1.69	20221116	INTERNET SERVICES
Bjs Wholesale	5	BJ	77.59	0.00	1.67	-1.12	1	1.50	1.67	1	-1.13	1.15	0.10	1.43	1.84	10,480	0.22	20221117	CONS SERVICES - MISC
Keysight Tech	8	KEYS	161.02	0.00	1.57	1.18	2	-0.50	1.63	4	1.55	0.18	-0.94	-0.57	1.84	28,790	0.16	20221117	ELEC MEASRNG INSTRUMENTS
Shoals Technol	3	SHLS	20.95	0.00	1.55	1.41	2	-0.50	1.63	4	1.17	0.05	-1.33	-0.57	1.84	3,503	0.82	20221114	SOLAR
Buckle Inc	4	BKE	38.21	3.66	1.35	0.84	3	-0.21	1.19	4	1.55	0.30	-0.47	-0.29	1.49	1,914	1.68	20221118	RETAIL-APPAREL/SHOE
Clear Secure	8	YOU	22.67	0.00	1.35	1.14	3	-0.36	1.26	4	1.55	0.28	-0.36	-0.43	1.49	3,400	1.69	20221114	PROTECTION-SFTY EQ & SVC
Helmerich&Payne	1	HP	48.30	2.07	1.35	2.47	3	-0.21	0.82	4	1.55	0.09	-0.64	-0.29	1.06	5,086	0.50	20221116	OIL & GAS-DRILLNG
Nu Holdings Ltd	8	NU	4.69	0.00	1.32	0.70	3	-0.07	1.26	2	0.86	1.06	1.78	-0.14	1.49	21,621	0.18	20221114	TECHNOLOGY SERVICES
Sea Ltd-Adr	8	SE	40.92	0.00	1.32	0.40	3	-0.36	1.26	2	0.86	0.90	1.25	-0.43	1.77	22,823	0.11	20221115	INTERNET SOFTWARE
Netease Inc	8	NTES	59.22	2.41	1.32	0.40	3	-0.36	0.78	2	0.86	0.65	1.25	-0.43	1.06	38,775	0.18	20221117	INTERNET SOFTWARE/SVCS
Soc Quimica Min	2	SQM	103.23	4.67	1.32	0.41	3	-0.21	1.26	2	0.86	0.60	0.48	-0.29	1.49	29,486	0.15	20221116	FERTILIZERS
Globant Sa	8	GLOB	165.74	0.00	1.32	0.70	3	-0.07	0.78	2	0.86	0.55	0.66	-0.14	1.06	6,943	0.46	20221117	INTERNET SOFTWARE/SVCS
Ke Holdings Inc	11	BEKE	10.41	0.00	1.32	0.45	3	-0.36	0.82	2	0.86	0.44	0.59	-0.43	1.06	12,401	0.16	20221114	REAL ESTATE OPERATIONS
Bowlero Corp	4	BOWL	14.22	0.00	1.32	0.69	3	-0.64	1.26	2	0.86	0.42	0.02	-0.71	1.77	2,361	2.79	20221116	LEISURE & RECREATION SVCS
Chinook Therap	6	KDNY	21.95	0.00	1.24	-0.31	3	1.50	1.19	3	-0.82	-1.72	-8.48	1.43	1.49	1,211	2.01	20221114	MEDICAL-DRUGS
Sigma Lithium	8	SGML	34.71	0.00	1.23	-1.13	3	1.50	1.26	1	-1.13	1.31	0.98	1.43	1.49	3,506	0.86	20221115	ELEC PRODUCTS-MISC
Jd.Com Inc-Adr	4	JD	42.46	0.00	1.23	-1.31	3	1.36	1.23	1	-1.13	1.06	0.34	1.29	1.49	57,228	0.05	20221118	ELECTRONIC COMMERCE
Bath&Body Works	4	BBWI	30.90	2.59	1.23	-1.31	3	1.36	0.74	1	-1.13	0.84	0.15	1.29	1.06	7,057	0.24	20221116	RETAIL-MISC/DIVERSIFIED
Dlocal Ltd	8	DLO	19.11	0.00	0.67	1.17	6	-0.36	-0.22	4	1.17	-0.18	-0.68	-0.43	0.50	5,638	1.48	20221114	FINANCIAL TRANSACTION SERVICES
Flex Lng Ltd	3	FLNG	32.60	9.20	0.67	2.18	6	-0.21	-0.29	8	1.17	-0.59	-1.01	-0.29	-0.50	1,735	1.36	20221115	TRANSPORTATION-SHIP
Legend Biotech	6	LEGN	51.50	0.00	0.67	1.21	6	-0.21	-0.26	4	1.17	-0.87	-2.45	-0.29	0.00	8,451	0.60	20221115	MEDICAL-BIOMED/GENETICS
Farfetch Ltd	4	FTCH	7.23	0.00	0.66	0.28	6	-0.36	-0.29	2	0.86	0.40	1.69	-0.43	0.00	2,753	0.45	20221117	RETAIL-APPAREL/SHOE
Grindrod Shppng	3	GRIN	25.86	12.99	0.66	0.30	6	-0.21	-0.29	2	0.86	0.31	1.25	-0.29	0.00	498	1.87	20221116	TRANSPORTATION-SHIP
Alibaba Group	4	BABA	64.84	0.00	0.66	0.28	6	-0.36	-0.40	2	0.86	0.27	1.28	-0.43	0.00	171,705	0.01	20221117	ELECTRONIC COMMERCE
Target Corp	4	TGT	152.99	2.82	0.64	-0.25	6	1.64	0.26	3	0.40	0.61	-0.30	1.57	0.57	70,416	0.05	20221116	RETAIL-DISCOUNT & VARIETY
Iqiyi Inc-Adr	9	IQ	2.02	0.00	0.63	0.69	6	-0.36	-0.33	2	0.33	0.06	0.61	-0.43	0.00	1,616	0.95	20221116	MOVIE/TV PRODUCTION/DISTRIB
Grab Hldgs Ltd	8	GRAB	2.59	0.00	0.57	-1.45	6	1.36	-0.44	1	-1.13	1.09	2.11	1.29	0.00	9,692	0.78	20221116	TECHNOLOGY SERVICES

Date: 11-09-2022

Cross Sector Analysis - Stocks are ranked from most to least attractive **INDEPENDENT OF SECTOR GROUPING**

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COMPANY	SECTOR	TICKER	PRICE	YIELD	XSEC IPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
Endava Plc	8	DAVA	63.93	0.00	0.57	-1.25	6	1.36	0.04	1	-1.13	0.77	0.49	1.29	0.57	3,562	1.40	20221115	IT SERVICES
Lowes Cos	4	LOW	186.63	2.25	0.57	-1.43	6	1.36	-0.18	1	-1.13	0.55	0.43	1.29	0.00	115,841	0.04	20221116	BLDG PROD-RETAIL/WHLSLE
Post Holdings	5	POST	88.88	0.00	0.57	-1.33	6	1.50	-0.29	1	-1.13	0.51	0.16	1.43	0.00	5,311	0.66	20221117	FOOD-MISC/DIVERSIFIED
Aramark Holding	4	ARMK	35.94	1.22	0.57	-1.43	6	1.50	-0.29	1	-1.13	0.48	0.06	1.43	0.00	9,262	0.37	20221115	FOOD-MISC/DIVERSIFIED
Spectrum Br-Hld	5	SPB	46.24	3.63	0.57	-1.33	6	1.36	-0.48	1	-1.13	0.47	0.19	1.29	0.00	1,885	1.12	20221118	CONSUMER PROD-MISC DISCRECTN
Copart Inc	3	CPRT	55.67	0.00	0.57	-1.54	6	1.36	-0.29	1	-1.13	0.42	0.02	1.29	0.00	26,507	0.22	20221116	AUCTION/VALUATION SERVICES
Copa Hldgs Sa-A	3	CPA	75.69	0.00	0.45	1.20	7	-1.50	1.71	4	1.17	0.02	-0.44	-1.57	1.84	3,174	1.53	20221116	TRANSPORTATION-AIRLINE
Walmart Inc	5	WMT	139.47	1.61	0.42	0.26	7	0.21	2.08	3	0.40	0.76	-0.15	0.14	2.13	378,555	0.03	20221115	RETAIL-SUPERMARKETS
Nj Resources	10	NJR	43.92	3.55	0.42	0.33	7	0.07	2.11	3	0.40	0.61	-0.65	0.00	2.27	4,226	0.94	20221117	UTILITY-GAS DISTRIBUTION
Home Depot	4	HD	286.75	2.65	0.35	-1.47	7	0.07	1.60	1	-1.13	0.89	0.72	0.00	1.84	293,554	0.02	20221115	BLDG PROD-RETAIL/WHLSLE
Freyr Battery	1	FREY	12.41	0.00	0.01	2.01	9	-0.50	-0.18	4	1.17	-0.30	-0.37	-0.57	0.00	1,445	1.24	20221114	OTHER ALT ENERGY
Renew Egy Gbl	1	RNW	6.17	0.00	-0.21	1.97	10	-0.36	-0.89	8	1.17	-0.36	-0.61	-0.43	-0.07	2,473	2.31	20221115	OTHER ALT ENERGY
Global E Online	4	GLBE	18.35	0.00	-0.21	1.00	10	-0.07	-0.74	8	1.17	-0.61	-1.14	-0.14	-0.57	2,856	1.06	20221116	ELECTRONIC COMMERCE
360 Digitech	8	QFIN	12.38	5.49	-0.24	1.10	10	-0.36	-0.74	6	0.40	0.94	3.45	-0.43	-0.07	1,885	1.84	20221114	TECHNOLOGY SERVICES
Rumble Inc	8	RUM	12.05	0.00	-0.24	1.35	10	-0.21	-0.66	6	0.40	0.19	0.97	-0.29	-0.07	460	0.65	20221114	INTERNET SOFTWARE
Ross Stores	4	ROST	91.32	1.36	-0.27	-0.22	10	-0.64	-0.74	6	-0.21	0.00	0.80	-0.71	-0.07	31,694	0.11	20221117	RETAIL-DISCOUNT & VARIETY
Weibo Corp Ads	8	WB	12.25	0.00	-0.27	1.00	10	-0.36	-1.37	6	-0.21	-0.11	1.27	-0.43	-1.06	2,898	1.59	20221117	INTERNET CONTENT
Twist Bioscienc	6	TWST	28.42	0.00	-0.27	0.78	10	-0.07	-0.74	6	-0.21	-0.22	0.10	-0.14	-0.57	1,602	1.06	20221118	MEDICAL-BIOMED/GENETICS
Banco Sant-Ads	7	BSBR	5.59	3.66	-0.27	1.03	10	-0.07	-1.33	6	-0.21	-0.25	0.56	-0.14	-1.06	20,870	2.07	20221116	BANKS-FOREIGN
Griffon Corp	3	GFF	31.62	1.14	-0.27	1.06	10	-0.21	-0.63	6	-0.21	-0.25	0.13	-0.29	-0.57	1,804	2.69	20221115	DIVERSIFIED OPERATIONS
Aecom	3	ACM	75.25	0.80	-0.27	1.27	10	-0.21	-1.15	6	-0.21	-0.44	0.10	-0.29	-1.06	10,509	0.53	20221114	ENGINEERING/R&D SVCS
Full Truck Alnc	8	YMM	5.10	0.00	-0.31	-0.53	10	1.36	-0.66	5	-1.13	1.10	2.23	1.29	-0.07	5,538	0.91	20221117	TECHNOLOGY SERVICES
Zim Int Shp Srv	3	ZIM	23.17	82.00	-0.31	-0.56	10	1.36	-0.92	5	-1.13	0.65	0.82	1.29	-0.07	2,779	0.27	20221116	TRANSPORTATION-SHIP
Azenta Inc	6	AZTA	40.72	0.25	-0.31	-0.55	10	1.64	-0.89	5	-1.13	0.59	0.90	1.57	-0.57	3,055	0.67	20221114	MEDICAL INFORMATION SYSTEMS
Ionq Inc	8	IONQ	4.61	0.00	-0.31	-0.53	10	1.36	-0.66	5	-1.13	0.49	0.34	1.29	-0.07	913	2.48	20221114	COMPUTER-INTEGRATED SYSTEMS
Childrens Place	4	PLCE	32.28	0.00	-0.31	-1.58	10	1.36	-0.89	5	-1.13	0.41	0.65	1.29	-0.57	421	1.80	20221117	RETAIL-APPAREL/SHOE
Tyson Foods A	5	TSN	64.11	2.87	-0.31	-0.56	10	1.36	-0.85	5	-1.13	0.35	0.43	1.29	-0.57	23,056	0.15	20221114	FOOD-MEAT PRODUCTS
Kohls Corp	4	KSS	27.03	7.40	-0.31	-1.58	10	1.36	-0.89	5	-1.13	0.26	0.16	1.29	-0.57	3,153	0.24	20221117	RETAIL-REGNL DEPT STRS
Berry Globl Grp	2	BERY	48.68	0.00	-0.31	-0.53	10	1.36	-0.70	5	-1.13	0.25	0.13	1.29	-0.57	6,586	0.72	20221115	CONTAINERS-PAPER/PLASTIC
Dolby Lab Inc-A	8	DLB	66.36	1.51	-0.31	-0.19	10	1.36	-0.66	5	-1.13	0.21	0.01	1.29	-0.57	6,695	0.87	20221117	AUDIO/VIDEO HOME PROD
Williams-Sonoma	4	WSM	115.23	2.71	-0.31	-0.52	10	1.64	-1.18	5	-1.13	0.15	0.10	1.57	-1.06	7,687	0.21	20221117	RETAIL-HOME FURNISHINGS
Ginkgo Bioworks	2	DNA	2.30	0.00	-0.32	0.11	10	1.36	-1.37	7	-1.21	-0.45	-1.48	1.29	-1.06	4,105	0.46	20221114	MEDICAL-BIOMED/GENETICS
Valvoline Inc	2	VVV	30.67	1.63	-0.43	0.98	11	-1.50	1.15	4	1.17	-0.11	-0.45	-1.57	1.49	5,429	0.52	20221115	CHEMICALS-SPECIALTY
Bellring Brands	5	BRBR	24.95	0.00	-0.46	0.09	11	0.21	1.19	3	0.40	0.56	-0.39	0.14	1.77	3,399	1.33	20221117	MEDICAL PRODUCTS
Cisco Systems	8	CSCO	43.91	3.46	-0.53	-1.45	11	0.07	1.19	1	-1.13	0.60	0.20	0.00	1.49	180,419	0.03	20221116	COMPUTER-NETWORKS
Foot Locker Inc	4	FL	29.92	5.35	-0.75	-1.66	12	0.93	-0.29	1	-1.13	0.33	0.17	0.86	0.00	2,792	0.37	20221118	RETAIL-APPAREL/SHOE
Clearfield Inc	8	CLFD	87.26	0.00	-0.98	-0.01	13	1.21	-0.66	7	-1.21	-0.07	-0.71	1.14	-0.57	1,202	1.17	20221117	WIRELESS EQUIPMENT

Date: 11-09-2022

Cross Sector Analysis - Stocks are ranked from most to least attractive **INDEPENDENT OF SECTOR GROUPING**

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	XSEC iPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
Tata Motors-Adr	4	TTM	26.40	0.00	-1.09	0.50	14	-1.36	0.00	4	1.17	-0.26	-0.49	-1.43	0.99	20,218	1.05	20221114	AUTO MFRS-FOREIGN
Gap Inc	4	GPS	10.62	5.65	-1.09	0.50	14	-1.64	-0.03	4	1.17	-0.41	-0.21	-1.71	0.57	3,862	0.29	20221117	RETAIL-APPAREL/SHOE
Stoneco Ltd	8	STNE	10.23	0.00	-1.10	-0.03	14	-1.07	0.23	2	0.86	0.26	0.82	-1.14	0.99	3,197	0.45	20221117	INTERNET SOFTWARE
Cia Siderur-Adr	2	SID	2.64	10.29	-1.13	0.31	14	-1.36	-0.03	2	0.33	-0.02	0.73	-1.43	0.57	3,663	2.09	20221116	STEEL-PRODUCERS
Brady Corp Cl A	3	BRC	46.63	1.97	-1.13	1.26	14	-1.07	-0.29	2	0.33	-0.14	0.71	-1.14	0.00	2,328	2.19	20221117	PROTECTION-SFTY EQ & SVC
Hillenbrand Inc	3	HI	43.62	1.99	-1.13	-0.04	14	-1.07	-0.29	2	0.33	-0.28	0.25	-1.14	0.00	3,030	2.23	20221116	INDUSTRIAL SERVICES
Atkore Intl Grp	3	ATKR	94.36	0.00	-1.13	-0.04	14	-1.36	-0.29	2	0.33	-0.33	0.38	-1.43	0.00	3,899	0.60	20221118	WIRE & CABLE PRODUCTS
Victorias Sectr	4	VSCO	38.20	0.00	-1.19	-1.74	14	0.07	0.00	1	-1.13	0.56	0.63	0.00	0.99	3,104	0.59	20221116	LEISURE & RECREATION PROD
Bhp Group Ltd	2	BHP	52.10	13.38	-1.19	-1.78	14	0.36	0.15	1	-1.13	0.38	0.26	0.29	0.57	76,854	0.11	20221115	MINING-MISC
Krispy Kreme	5	DNUT	14.16	0.99	-1.19	-1.10	14	0.21	-0.44	1	-1.13	0.21	0.52	0.14	0.00	2,371	2.02	20221115	CONSUMER PROD-MISC STAPLES
Advance Auto Pt	4	AAP	175.35	3.42	-1.19	-1.74	14	0.36	-0.33	1	-1.13	0.16	0.20	0.29	0.00	10,542	0.19	20221115	RETAIL/WHLSLE-AUTO PARTS
Ugi Corp	10	UGI	35.19	4.09	-1.21	-1.27	14	0.07	-0.18	1	-1.59	0.06	0.18	0.00	0.00	7,390	0.54	20221117	UTILITY-GAS DISTRIBUTION
Rlx Technology	4	RLX	1.34	0.00	-1.59	-0.46	16	-1.64	-0.77	6	-0.21	-0.59	0.52	-1.71	-0.57	2,081	1.29	20221116	CONSUMER PROD-MISC DISCRECTN
Gerdau Sa Adr	2	GGB	5.50	10.12	-1.59	0.96	16	-1.07	-1.29	6	-0.21	-0.70	0.16	-1.14	-1.06	9,458	0.37	20221116	STEEL-PRODUCERS
Sonos Inc	4	SONO	15.17	0.00	-1.59	-0.46	16	-1.64	-0.81	6	-0.21	-0.71	0.14	-1.71	-0.57	1,930	0.86	20221116	AUDIO/VIDEO HOME PROD
Energizer Hldgs	5	ENR	28.30	4.24	-1.63	-0.14	16	0.07	-0.74	5	-1.13	0.21	0.74	0.00	-0.07	2,017	1.84	20221115	CONSUMER PROD-MISC STAPLES
Woodward Inc	3	WWD	94.80	0.80	-1.63	-0.82	16	0.36	-0.66	5	-1.13	0.14	0.23	0.29	-0.07	5,704	0.92	20221117	INSTRUMENTS-CONTROL
Nvidia Corp	8	NVDA	137.76	0.12	-1.64	-0.13	16	0.36	-0.89	7	-1.21	-0.16	-0.13	0.29	-0.57	343,022	0.00	20221116	SEMI-GENERAL
Star Bulk Carrs	3	SBLK	19.33	34.14	-1.64	-0.45	16	0.07	-0.89	7	-1.21	-0.39	-0.59	0.00	-0.57	1,977	0.82	20221116	TRANSPORTATION-SHIP
Macys Inc	4	M	18.75	3.36	-1.65	-1.87	16	0.36	-0.81	5	-1.59	-0.01	0.32	0.29	-0.57	5,081	0.14	20221117	RETAIL-REGNL DEPT STRS
Kulicke & Soffa	8	KLIC	42.89	1.59	-1.65	-0.67	16	0.07	-0.70	5	-1.59	-0.06	0.45	0.00	-0.57	2,491	1.17	20221116	ELECTRONICS-MANUFACTURING MACH
Appld Matls Inc	8	AMAT	94.38	1.10	-1.65	-0.38	16	0.36	-1.33	5	-1.59	-0.25	0.13	0.29	-1.06	81,196	0.03	20221117	SEMI-EQPT WAFER FAB

Date: 11-09-2022

ON THE RADAR - 20 of the most attractive names independent of sector grouping

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	iPSCORE	XSEC iPSCORE	Behavioral Preference Factor	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP \$millions	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
								ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
Jumia Tech-Adr	4	JMIA	3.67	0.00	2.61	1.79	0.92	1	-0.37	1.63	2	0.82	1.25	1.19	-0.45	3.00	367	2.75	20221117	ELECTRONIC COMMERCE
Knowbe4 Inc	8	KNBE	24.61	0.00	1.55	1.77	1.37	1	-0.63	1.71	4	1.15	-0.73	-2.07	-0.70	1.88	4,299	0.50	20221116	PROTECTION-SFTY EQ & SVC
Tjx Cos Inc New	4	TJX	70.08	1.68	2.64	1.76	0.48	1	-0.22	2.04	2	1.72	1.44	1.20	-0.30	3.42	81,367	0.07	20221116	RETAIL-DISCOUNT & VARIETY
Vipshop Holdngs	8	VIPS	7.66	0.00	1.57	1.76	0.78	1	-0.07	1.63	4	1.49	0.27	-0.13	-0.14	1.88	5,201	0.60	20221117	INTERNET SERVICES - DELIVERY
Tencent Mus-Adr	8	TME	3.66	0.00	1.54	1.76	0.48	1	-0.35	1.71	2	0.89	0.38	0.43	-0.42	1.88	6,204	0.71	20221115	INTERNET CONTENT
On Holding Ag	4	ONON	16.45	0.00	2.61	1.74	-0.06	1	1.71	1.71	3	0.82	0.87	-1.62	1.64	2.59	10,237	0.78	20221116	LEISURE & RECREATION PROD
Tower Semicond	8	TSEM	39.99	0.00	1.55	1.74	-0.06	1	1.34	2.04	3	0.98	0.89	-0.15	1.27	2.21	4,370	1.18	20221114	ELEC-SEMICONDUCTORS
Eletrbras-Adr	10	EBR	9.36	1.37	1.53	1.74	-0.34	1	1.74	1.63	1	-0.34	0.72	0.35	0.17	2.01	14,685	0.76	20221115	UTILITY-ELECTRIC POWER
Palo Alto Netwk	8	PANW	151.57	0.00	1.53	1.74	-0.06	1	1.62	1.71	3	0.47	0.78	-0.55	1.55	1.88	45,531	0.04	20221117	SECURITY
Monday.Com Ltd	8	MNDY	76.46	0.00	1.53	1.74	-0.06	1	1.34	1.63	3	0.47	0.57	-0.80	1.27	1.88	3,376	0.53	20221114	INTERNET SOFTWARE
Ferroglobe Plc	2	GSM	5.66	0.00	2.07	1.67	-1.25	1	1.29	2.11	1	1.10	1.42	0.34	1.36	2.56	1,060	2.86	20221115	MINING-MISC
Joyy Inc	9	YY	25.36	8.00	1.73	1.67	-1.37	1	1.32	1.71	1	-0.93	1.25	1.03	1.11	2.69	1,977	1.69	20221116	INTERNET SERVICES
Bjs Wholesale	5	BJ	77.59	0.00	1.69	1.67	-1.12	1	1.56	1.67	3	0.17	0.89	-0.04	1.19	1.85	10,480	0.22	20221117	CONS SERVICES - MISC
Keysight Tech	8	KEYS	161.02	0.00	1.34	1.57	1.18	2	-0.49	1.63	4	1.15	-0.22	-0.92	-0.56	1.88	28,790	0.16	20221117	ELEC MEASRNG INSTRUMENTS
Shoals Technol	3	SHLS	20.95	0.00	1.53	1.55	1.41	2	-0.51	1.63	4	1.07	0.09	-1.04	-0.43	1.96	3,503	0.82	20221114	SOLAR
Buckle Inc	4	BKE	38.21	3.66	2.01	1.35	0.84	3	-0.22	1.19	2	0.82	0.84	0.32	-0.30	2.50	1,914	1.68	20221118	RETAIL-APPAREL/SHOE
Clear Secure	8	YOU	22.67	0.00	1.13	1.35	1.14	3	-0.35	1.26	4	1.15	-0.23	-0.90	-0.42	1.49	3,400	1.69	20221114	PROTECTION-SFTY EQ & SVC
Helmerich&Payne	1	HP	48.30	2.07	0.81	1.35	2.47	3	-0.23	0.82	8	-1.24	-0.56	-0.72	-0.31	-0.46	5,086	0.50	20221116	OIL & GAS-DRILLNG
Bowlero Corp	4	BOWL	14.22	0.00	2.07	1.32	0.69	3	-0.67	1.26	4	2.28	0.67	-0.18	-0.74	2.92	2,361	2.79	20221116	LEISURE & RECREATION SVCS
Soc Quimica Min	2	SQM	103.23	4.67	1.65	1.32	0.41	3	-0.20	1.26	2	1.66	0.96	1.28	-0.14	1.73	29,486	0.15	20221116	FERTILIZERS

Date: 11-09-2022

Alphabetical listing of ALL Companies

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	IPSCORE	XSEC IPSCORE	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
360 Digitech	8	QFIN	12.38	5.49	-0.37	-0.24	10	-0.35	-0.74	6	0.47	0.29	1.37	-0.42	-0.45	1,885	1.84	20221114	TECHNOLOGY SERVICES
Advance Auto Pt	4	AAP	175.35	3.42	-1.34	-1.19	14	0.37	-0.33	1	-1.20	0.52	0.68	0.30	0.58	10,542	0.19	20221115	RETAIL/WHLSLE-AUTO PARTS
Aecom	3	ACM	75.25	0.80	-0.20	-0.27	10	-0.22	-1.15	8	0.77	-0.46	-0.31	-0.14	-0.88	10,509	0.53	20221114	ENGINEERING/R&D SVCS
Alibaba Group	4	BABA	64.84	0.00	1.12	0.66	6	-0.37	-0.40	2	0.82	0.55	2.00	-0.45	0.08	171,705	0.01	20221117	ELECTRONIC COMMERCE
Appld Matls Inc	8	AMAT	94.38	1.10	-1.71	-1.65	16	0.35	-1.33	7	-1.31	-0.15	-0.24	0.28	-0.84	81,196	0.03	20221117	SEMI-EQPT WAFER FAB
Aramark Holding	4	ARMK	35.94	1.22	1.04	0.57	6	1.56	-0.29	1	-1.20	0.85	0.49	1.49	0.58	9,262	0.37	20221115	FOOD-MISC/DIVERSIFIED
Atkore Intl Grp	3	ATKR	94.36	0.00	-1.08	-1.13	14	-1.37	-0.29	2	0.39	0.15	0.98	-1.30	0.00	3,899	0.60	20221118	WIRE & CABLE PRODUCTS
Azenta Inc	6	AZTA	40.72	0.25	-0.51	-0.31	10	1.67	-0.89	5	-0.14	2.07	4.92	1.74	-0.43	3,055	0.67	20221114	MEDICAL INFORMATION SYSTEMS
Banco Sant-Ads	7	BSBR	5.59	3.66	-0.17	-0.27	10	-0.07	-1.33	6	-0.52	-0.12	0.18	-0.14	-0.41	20,870	2.07	20221116	BANKS-FOREIGN
Bath&Body Works	4	BBWI	30.90	2.59	1.96	1.23	3	1.41	0.74	1	-0.52	1.40	0.94	1.34	1.92	7,057	0.24	20221116	RETAIL-MISC/DIVERSIFIED
Bellring Brands	5	BRBR	24.95	0.00	-0.21	-0.46	11	0.22	1.19	4	1.26	-0.57	-2.34	-0.15	1.47	3,399	1.33	20221117	MEDICAL PRODUCTS
Berry Globl Grp	2	BERY	48.68	0.00	-0.02	-0.31	10	1.29	-0.70	5	-0.78	0.41	0.40	1.36	-0.53	6,586	0.72	20221115	CONTAINERS-PAPER/PLASTIC
Bhp Group Ltd	2	BHP	52.10	13.38	-0.86	-1.19	14	0.34	0.15	1	0.19	0.36	0.06	0.41	0.60	76,854	0.11	20221115	MINING-MISC
Bjs Wholesale	5	BJ	77.59	0.00	1.69	1.67	1	1.56	1.67	3	0.17	0.89	-0.04	1.19	1.85	10,480	0.22	20221117	CONS SERVICES - MISC
Bowlero Corp	4	BOWL	14.22	0.00	2.07	1.32	3	-0.67	1.26	4	2.28	0.67	-0.18	-0.74	2.92	2,361	2.79	20221116	LEISURE & RECREATION SVCS
Brady Corp Cl A	3	BRC	46.63	1.97	-1.10	-1.13	14	-1.08	-0.29	6	-0.07	-0.19	0.38	-1.01	-0.41	2,328	2.19	20221117	PROTECTION-SFTY EQ & SVC
Buckle Inc	4	BKE	38.21	3.66	2.01	1.35	3	-0.22	1.19	2	0.82	0.84	0.32	-0.30	2.50	1,914	1.68	20221118	RETAIL-APPAREL/SHOE
Childrens Place	4	PLCE	32.28	0.00	-0.15	-0.31	10	1.41	-0.89	1	-1.20	0.94	1.49	1.34	0.00	421	1.80	20221117	RETAIL-APPAREL/SHOE
Chinook Therap	6	KDNY	21.95	0.00	0.98	1.24	3	1.52	1.19	3	-0.45	-0.37	-4.13	1.60	1.43	1,211	2.01	20221114	MEDICAL-DRUGS
Cia Siderur-Adr	2	SID	2.64	10.29	-0.85	-1.13	14	-1.29	-0.03	4	0.47	-0.45	-0.73	-1.23	0.60	3,663	2.09	20221116	STEEL-PRODUCERS
Cisco Systems	8	CSCO	43.91	3.46	-0.59	-0.53	11	0.07	1.19	3	0.47	0.28	-0.05	0.00	1.49	180,419	0.03	20221116	COMPUTER-NETWORKS
Clear Secure	8	YOU	22.67	0.00	1.13	1.35	3	-0.35	1.26	4	1.15	-0.23	-0.90	-0.42	1.49	3,400	1.69	20221114	PROTECTION-SFTY EQ & SVC
Clearfield Inc	8	CLFD	87.26	0.00	-1.05	-0.98	13	1.20	-0.66	7	-0.63	0.04	-0.80	1.13	-0.45	1,202	1.17	20221117	WIRELESS EQUIPMENT
Copa Hldgs Sa-A	3	CPA	75.69	0.00	0.47	0.45	7	-1.52	1.71	4	1.38	0.29	-0.08	-1.45	1.96	3,174	1.53	20221116	TRANSPORTATION-AIRLINE
Copart Inc	3	CPRT	55.67	0.00	0.60	0.57	6	1.37	-0.29	1	-0.52	0.36	0.09	1.45	0.00	26,507	0.22	20221116	AUCTION/VALUATION SERVICES
Dlocal Ltd	8	DLO	19.11	0.00	0.50	0.67	6	-0.35	-0.22	4	1.15	-0.76	-1.48	-0.42	0.00	5,638	1.48	20221114	FINANCIAL TRANSACTION SERVICES
Dolby Lab Inc-A	8	DLB	66.36	1.51	-0.42	-0.31	10	1.34	-0.66	7	-0.63	0.19	-0.56	1.27	-0.45	6,695	0.87	20221117	AUDIO/VIDEO HOME PROD
Elektrobras-Adr	10	EBR	9.36	1.37	1.53	1.74	1	1.74	1.63	1	-0.34	0.72	0.35	0.17	2.01	14,685	0.76	20221115	UTILITY-ELECTRIC POWER
Endava Plc	8	DAVA	63.93	0.00	0.47	0.57	6	1.34	0.04	3	0.47	0.52	-0.22	1.27	0.52	3,562	1.40	20221115	IT SERVICES
Energizer Hldgs	5	ENR	28.30	4.24	-1.19	-1.63	16	0.07	-0.74	6	0.72	0.14	0.98	-0.30	-0.45	2,017	1.84	20221115	CONSUMER PROD-MISC STAPLES
Farfetch Ltd	4	FTCH	7.23	0.00	1.12	0.66	6	-0.37	-0.29	2	0.82	0.55	1.52	-0.45	0.58	2,753	0.45	20221117	RETAIL-APPAREL/SHOE
Ferroglobe Plc	2	GSM	5.66	0.00	2.07	1.67	1	1.29	2.11	1	1.10	1.42	0.34	1.36	2.56	1,060	2.86	20221115	MINING-MISC
Flex Lng Ltd	3	FLNG	32.60	9.20	0.62	0.67	6	-0.22	-0.29	6	-0.07	0.03	0.44	-0.14	-0.41	1,735	1.36	20221115	TRANSPORTATION-SHIP
Foot Locker Inc	4	FL	29.92	5.35	-0.75	-0.75	12	0.97	-0.29	1	-1.20	0.89	1.19	0.89	0.58	2,792	0.37	20221118	RETAIL-APPAREL/SHOE
Freyr Battery	1	FREY	12.41	0.00	-0.43	0.01	9	-0.54	-0.18	6	-0.58	-0.71	0.06	-0.61	-1.52	1,445	1.24	20221114	OTHER ALT ENERGY
Full Truck Alnc	8	YMM	5.10	0.00	-0.46	-0.31	10	1.34	-0.66	5	-1.74	0.71	0.73	1.27	-0.45	5,538	0.91	20221117	TECHNOLOGY SERVICES
Gap Inc	4	GPS	10.62	5.65	-1.29	-1.09	14	-1.71	-0.03	2	-0.08	0.11	0.88	-1.79	1.25	3,862	0.29	20221117	RETAIL-APPAREL/SHOE
Gerdau Sa Adr	2	GGB	5.50	10.12	-1.32	-1.59	16	-1.02	-1.29	8	-0.02	-0.80	-0.46	-0.95	-0.98	9,458	0.37	20221116	STEEL-PRODUCERS

Date: 11-09-2022

Alphabetical listing of ALL Companies

SECTOR CODES: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare

SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	IPSCORE	XSEC IPSCORE	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
Ginkgo Bioworks	2	DNA	2.30	0.00	-0.08	-0.32	10	1.29	-1.37	7	-1.97	-0.22	-0.74	1.36	-1.28	4,105	0.46	20221114	MEDICAL-BIOMED/GENETICS
Global E Online	4	GLBE	18.35	0.00	-0.08	-0.21	10	-0.07	-0.74	4	0.60	-0.37	-0.96	-0.15	0.00	2,856	1.06	20221116	ELECTRONIC COMMERCE
Globant Sa	8	GLOB	165.74	0.00	1.14	1.32	3	-0.07	0.78	4	1.49	0.15	-0.01	-0.14	1.04	6,943	0.46	20221117	INTERNET SOFTWARE/SVCS
Grab Hldgs Ltd	8	GRAB	2.59	0.00	0.40	0.57	6	1.34	-0.44	1	-1.23	0.69	0.45	1.27	0.00	9,692	0.78	20221116	TECHNOLOGY SERVICES
Griffon Corp	3	GFF	31.62	1.14	-0.24	-0.27	10	-0.22	-0.63	6	-0.07	-0.12	0.15	-0.14	-0.47	1,804	2.69	20221115	DIVERSIFIED OPERATIONS
Grindrod Shppng	3	GRIN	25.86	12.99	0.66	0.66	6	-0.22	-0.29	2	0.84	1.20	2.78	-0.14	0.00	498	1.87	20221116	TRANSPORTATION-SHIP
Helmerich&Payne	1	HP	48.30	2.07	0.81	1.35	3	-0.23	0.82	8	-1.24	-0.56	-0.72	-0.31	-0.46	5,086	0.50	20221116	OIL & GAS-DRILLNG
Hillenbrand Inc	3	HI	43.62	1.99	-1.08	-1.13	14	-1.08	-0.29	2	0.39	-0.06	0.38	-1.01	0.00	3,030	2.23	20221116	INDUSTRIAL SERVICES
Home Depot	4	HD	286.75	2.65	0.77	0.35	7	0.07	1.60	1	-0.52	1.45	1.33	0.00	3.00	293,554	0.02	20221115	BLDG PROD-RETAIL/WHLSLE
Ionq Inc	8	IONQ	4.61	0.00	-0.46	-0.31	10	1.34	-0.66	5	-1.74	0.53	0.29	1.27	-0.45	913	2.48	20221114	COMPUTER-INTEGRATED SYSTEMS
Iqiyi Inc-Adr	9	IQ	2.02	0.00	0.71	0.63	6	-0.35	-0.33	4	1.39	-0.20	-0.01	-0.56	0.47	1,616	0.95	20221116	MOVIE/TV PRODUCTION/DISTRIB
Jd.Com Inc-Adr	4	JD	42.46	0.00	1.96	1.23	3	1.41	1.23	1	-0.52	1.64	1.08	1.34	2.50	57,228	0.05	20221118	ELECTRONIC COMMERCE
Joyy Inc	9	YY	25.36	8.00	1.73	1.67	1	1.32	1.71	1	-0.93	1.25	1.03	1.11	2.69	1,977	1.69	20221116	INTERNET SERVICES
Jumia Tech-Adr	4	JMIA	3.67	0.00	2.61	1.79	1	-0.37	1.63	2	0.82	1.25	1.19	-0.45	3.00	367	2.75	20221117	ELECTRONIC COMMERCE
Ke Holdings Inc	11	BEKE	10.41	0.00	1.43	1.32	3	-0.35	0.82	2	1.59	0.16	1.03	-1.66	1.12	12,401	0.16	20221114	REAL ESTATE OPERATIONS
Keysight Tech	8	KEYS	161.02	0.00	1.34	1.57	2	-0.49	1.63	4	1.15	-0.22	-0.92	-0.56	1.88	28,790	0.16	20221117	ELEC MEASRNG INSTRUMENTS
Knowbe4 Inc	8	KNBE	24.61	0.00	1.55	1.77	1	-0.63	1.71	4	1.15	-0.73	-2.07	-0.70	1.88	4,299	0.50	20221116	PROTECTION-SFTY EQ & SVC
Kohls Corp	4	KSS	27.03	7.40	-0.15	-0.31	10	1.41	-0.89	1	-1.20	0.94	1.50	1.34	0.00	3,153	0.24	20221117	RETAIL-REGNL DEPT STRS
Krispy Kreme	5	DNUT	14.16	0.99	-0.76	-1.19	14	0.22	-0.44	4	1.89	-0.17	-0.30	-0.15	0.00	2,371	2.02	20221115	CONSUMER PROD-MISC STAPLES
Kulicke & Soffa	8	KLIC	42.89	1.59	-1.73	-1.65	16	0.07	-0.70	5	-1.74	0.12	0.52	0.00	-0.45	2,491	1.17	20221116	ELECTRONICS-MANUFACTURING MACH
Legend Biotech	6	LEGN	51.50	0.00	0.39	0.67	6	-0.22	-0.26	4	0.96	-0.56	-1.55	-0.15	0.00	8,451	0.60	20221115	MEDICAL-BIOMED/GENETICS
Lowe's Cos	4	LOW	186.63	2.25	1.04	0.57	6	1.41	-0.18	1	-1.20	0.86	0.65	1.34	0.58	115,841	0.04	20221116	BLDG PROD-RETAIL/WHLSLE
Macys Inc	4	M	18.75	3.36	-1.96	-1.65	16	0.37	-0.81	1	-1.76	0.46	1.09	0.30	0.00	5,081	0.14	20221117	RETAIL-REGNL DEPT STRS
Monday.Com Ltd	8	MNDY	76.46	0.00	1.53	1.74	1	1.34	1.63	3	0.47	0.57	-0.80	1.27	1.88	3,376	0.53	20221114	INTERNET SOFTWARE
Netease Inc	8	NTES	59.22	2.41	1.12	1.32	3	-0.35	0.78	2	0.89	0.14	0.24	-0.42	1.04	38,775	0.18	20221117	INTERNET SOFTWARE/SVCS
Nj Resources	10	NJR	43.92	3.55	0.19	0.42	7	0.08	2.11	4	-0.49	-0.24	-0.92	-1.49	2.35	4,226	0.94	20221117	UTILITY-GAS DISTRIBUTION
Nu Holdings Ltd	8	NU	4.69	0.00	1.14	1.32	3	-0.07	1.26	4	1.49	0.21	-0.07	-0.14	1.49	21,621	0.18	20221114	TECHNOLOGY SERVICES
Nvidia Corp	8	NVDA	137.76	0.12	-1.71	-1.64	16	0.35	-0.89	7	-1.31	-0.54	-1.41	0.28	-0.45	343,022	0.00	20221116	SEMI-GENERAL
On Holding Ag	4	ONON	16.45	0.00	2.61	1.74	1	1.71	1.71	3	0.82	0.87	-1.62	1.64	2.59	10,237	0.78	20221116	LEISURE & RECREATION PROD
Palo Alto Netwk	8	PANW	151.57	0.00	1.53	1.74	1	1.62	1.71	3	0.47	0.78	-0.55	1.55	1.88	45,531	0.04	20221117	SECURITY
Post Holdings	5	POST	88.88	0.00	0.70	0.57	6	1.56	-0.29	3	-0.46	0.30	-0.38	1.19	0.00	5,311	0.66	20221117	FOOD-MISC/DIVERSIFIED
Renew Egy Glbl	1	RNW	6.17	0.00	-0.65	-0.21	10	-0.38	-0.89	6	-0.58	-0.89	0.08	-0.46	-1.98	2,473	2.31	20221115	OTHER ALT ENERGY
Rlx Technology	4	RLX	1.34	0.00	-1.89	-1.59	16	-1.71	-0.77	2	-0.08	0.00	1.77	-1.79	0.00	2,081	1.29	20221116	CONSUMER PROD-MISC DISCRECTN
Ross Stores	4	ROST	91.32	1.36	-0.10	-0.27	10	-0.67	-0.74	2	-0.08	0.27	1.54	-0.74	0.00	31,694	0.11	20221117	RETAIL-DISCOUNT & VARIETY
Rumble Inc	8	RUM	12.05	0.00	-0.36	-0.24	10	-0.21	-0.66	8	0.81	-0.34	-0.33	-0.28	-0.45	460	0.65	20221114	INTERNET SOFTWARE
Sea Ltd-Adr	8	SE	40.92	0.00	1.12	1.32	3	-0.35	1.26	2	0.89	0.37	0.59	-0.42	1.49	22,823	0.11	20221115	INTERNET SOFTWARE
Shoals Technol	3	SHLS	20.95	0.00	1.53	1.55	2	-0.51	1.63	4	1.07	0.09	-1.04	-0.43	1.96	3,503	0.82	20221114	SOLAR

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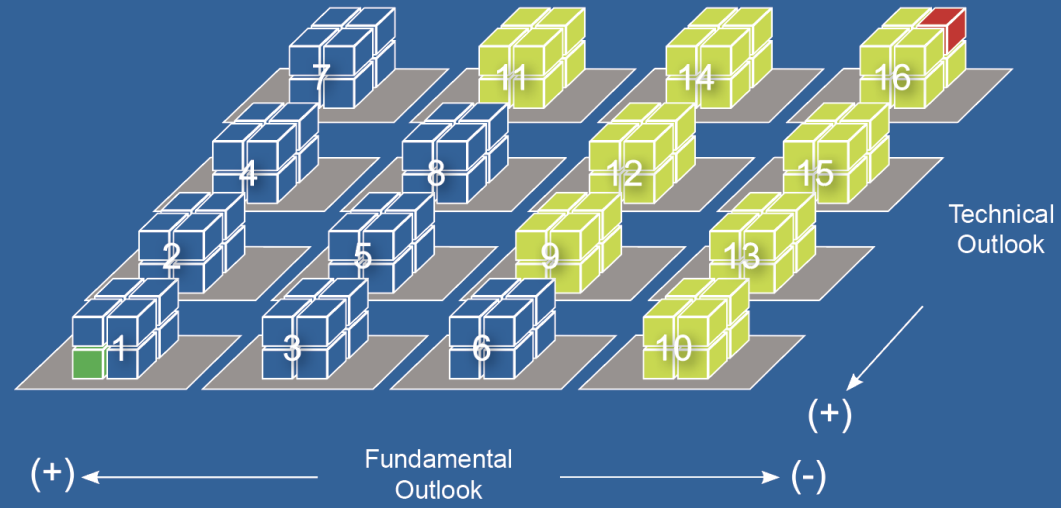
SECTOR CODES: 7-Financials, 8-Information Technology, 9-Communication Services, 10-Utilities, 11-Real Estate

COMPANY	SECTOR	TICKER	PRICE	YIELD	IPSCORE	XSEC IPSCORE	ABSOLUTE-SCALE METRICS			RELATIVE-SCALE METRICS					MKT CAP	DAYS2TR	EPS REPORT DATE	INDUSTRY GROUP	
							ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE					CSCORE
Sigma Lithium	8	SGML	34.71	0.00	1.10	1.23	3	1.48	1.26	3	0.47	0.69	-0.43	1.41	1.49	3,506	0.86	20221115	ELEC PRODUCTS-MISC
Soc Quimica Min	2	SQM	103.23	4.67	1.65	1.32	3	-0.20	1.26	2	1.66	0.96	1.28	-0.14	1.73	29,486	0.15	20221116	FERTILIZERS
Sonos Inc	4	SONO	15.17	0.00	-1.92	-1.59	16	-1.71	-0.81	2	-0.86	-0.44	0.46	-1.79	0.00	1,930	0.86	20221116	AUDIO/VIDEO HOME PROD
Spectrum Br-Hld	5	SPB	46.24	3.63	0.70	0.57	6	1.41	-0.48	3	-0.46	0.27	-0.32	1.04	0.00	1,885	1.12	20221118	CONSUMER PROD-MISC DISCRECTN
Star Bulk Carrs	3	SBLK	19.33	34.14	-1.62	-1.64	16	0.07	-0.89	5	-1.96	-0.10	0.05	0.14	-0.47	1,977	0.82	20221116	TRANSPORTATION-SHIP
Stonoco Ltd	8	STNE	10.23	0.00	-1.22	-1.10	14	-1.06	0.23	2	0.38	-0.33	0.05	-1.13	0.52	3,197	0.45	20221117	INTERNET SOFTWARE
Target Corp	4	TGT	152.99	2.82	1.12	0.64	6	1.71	0.26	3	0.82	0.96	-0.02	1.64	1.25	70,416	0.05	20221116	RETAIL-DISCOUNT & VARIETY
Tata Motors-Adr	4	TTM	26.40	0.00	-1.29	-1.09	14	-1.41	0.00	2	-0.08	-0.03	0.16	-1.49	1.25	20,218	1.05	20221114	AUTO MFRS-FOREIGN
Tencent Mus-Adr	8	TME	3.66	0.00	1.54	1.76	1	-0.35	1.71	2	0.89	0.38	0.43	-0.42	1.88	6,204	0.71	20221115	INTERNET CONTENT
Tjx Cos Inc New	4	TJX	70.08	1.68	2.64	1.76	1	-0.22	2.04	2	1.72	1.44	1.20	-0.30	3.42	81,367	0.07	20221116	RETAIL-DISCOUNT & VARIETY
Tower Semicond	8	TSEM	39.99	0.00	1.55	1.74	1	1.34	2.04	3	0.98	0.89	-0.15	1.27	2.21	4,370	1.18	20221114	ELEC-SEMICONDUCTORS
Twist Bioscienc	6	TWST	28.42	0.00	-0.57	-0.27	10	-0.07	-0.74	7	-1.46	-0.24	-0.29	0.00	-0.43	1,602	1.06	20221118	MEDICAL-BIOMED/GENETICS
Tyson Foods A	5	TSN	64.11	2.87	-0.09	-0.31	10	1.41	-0.85	5	-1.18	0.45	0.45	1.04	-0.45	23,056	0.15	20221114	FOOD-MEAT PRODUCTS
Ugi Corp	10	UGI	35.19	4.09	-1.37	-1.21	14	0.08	-0.18	4	-0.49	-0.40	-0.06	-1.49	0.00	7,390	0.54	20221117	UTILITY-GAS DISTRIBUTION
Valvoline Inc	2	VVV	30.67	1.63	-0.16	-0.43	11	-1.43	1.15	4	0.89	0.05	-0.22	-1.36	1.73	5,429	0.52	20221115	CHEMICALS-SPECIALTY
Victorias Secrt	4	VSCO	38.20	0.00	-1.34	-1.19	14	0.07	0.00	1	-1.20	1.17	1.68	0.00	1.84	3,104	0.59	20221116	LEISURE & RECREATION PROD
Vipshop Holdngs	8	VIPS	7.66	0.00	1.57	1.76	1	-0.07	1.63	4	1.49	0.27	-0.13	-0.14	1.88	5,201	0.60	20221117	INTERNET SERVICES - DELIVERY
Walmart Inc	5	WMT	139.47	1.61	0.59	0.42	7	0.22	2.08	4	1.89	0.20	-0.77	-0.15	2.17	378,555	0.03	20221115	RETAIL-SUPERMARKETS
Weibo Corp Ads	8	WB	12.25	0.00	-0.37	-0.27	10	-0.35	-1.37	6	0.47	0.02	0.89	-0.42	-0.84	2,898	1.59	20221117	INTERNET CONTENT
Williams-Sonoma	4	WSM	115.23	2.71	-0.20	-0.31	10	1.71	-1.18	5	-2.32	0.43	0.14	1.64	-0.50	7,687	0.21	20221117	RETAIL-HOME FURNISHINGS
Woodward Inc	3	WWD	94.80	0.80	-1.62	-1.63	16	0.36	-0.66	5	-1.96	-0.05	0.02	0.43	-0.47	5,704	0.92	20221117	INSTRUMENTS-CONTROL
Zim Int Shp Srv	3	ZIM	23.17	82.00	-0.30	-0.31	10	1.37	-0.92	5	-1.51	0.61	1.00	1.45	-0.47	2,779	0.27	20221116	TRANSPORTATION-SHIP



<b>iPScore</b>	Composite multi-factor score based on integrated relative-scale and absolute-scale metrics. Positive (+) or negative (-) number indicates standard deviation units above or below peer group average.
<b>Behavioral Preference</b>	Behavioral preference factor for stock based on investor behavior pattern recognition. Positive (+) or negative (-) number indicates expected favor or disfavor towards stock expressed in standard deviation units.oup average.
<b>ABS DCOORD</b>	Absolute-scale dimensional coordinate (1-16) based on combined measures of fundamental outlook and technical outlook. for each stock. (1 = most attractive, 16 = least attractive)
<b>TECH OUTLK</b>	Technical outlook for stock based on proprietary price oscillator and money flow factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group average.
<b>FUNDA OUTLK</b>	Fundamental outlook for stock based on proprietary measure of earnings expectations. Positive (+) or negative (-) number indicates standard deviation units above or below peer group average.
<b>REL DCOORD</b>	Relative-scale dimensional coordinate (1-8) based on 3-dimensional positioning of stock indicated by valuation, technical and catalytic scores. Also used to determine qualitative characterizations of stocks
<b>rPScore</b>	Composite multi-factor score based on relative-scale valuation, technical and catalytic scores. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
<b>VTCavg</b>	Sector-specific, optimally-weighted average of relative-scale valuation, technical and catalytic scores. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
<b>VScore</b>	Sector-specific composite score based on optimal combination of various VALUATION factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
<b>TScore</b>	Composite multi-factor score based on optimal combination of various TECHNICAL factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
<b>CScore</b>	Composite multi-factor score based on optimal combination of various CATALYTIC factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
<b>DAYS2TR</b>	Days-to-Trade - A standardized liquidity measure indicating the number of trading days required to trade a \$25 million position at the average daily trading volume for the stock.

### Qubit Multi-factor Model



■ Most Attractive Stocks

On an Absolute Scale:

- Positive **Technical Outlook**
- Positive **Fundamental Outlook**

Relative to Peer Group Stocks:

- Favorable **Valuation** Properties
  - Favorable **Technical** Properties
  - Favorable **Catalytic** Properties
- (Favorable = More Positive or Less Negative)

■ Least Attractive Stocks

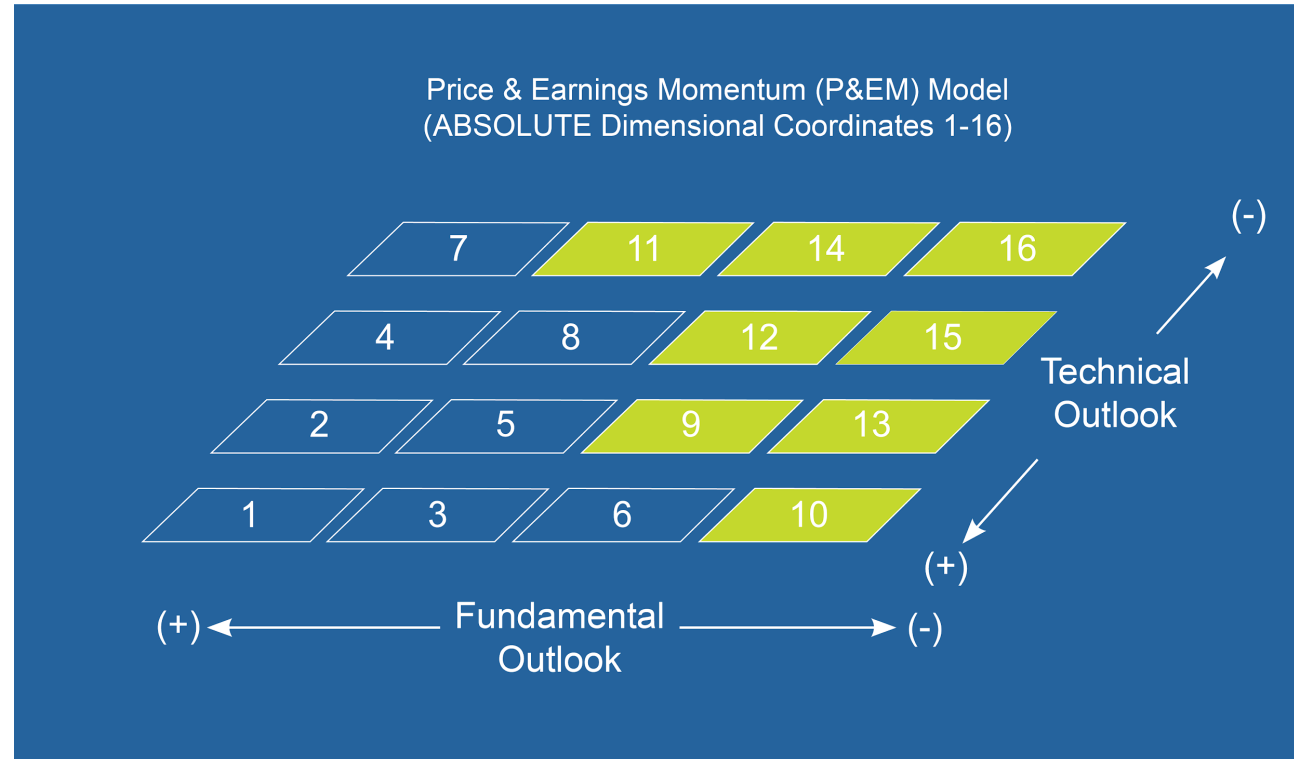
On an Absolute Scale:

- Negative **Technical Outlook**
- Negative **Fundamental Outlook**

Relative to Peer Group Stocks:

- Unfavorable **Valuation** Properties
  - Unfavorable **Technical** Properties
  - Unfavorable **Catalytic** Properties
- (Unfavorable = Less Positive or More Negative)

# Absolute-scale Dimensional Coordinates based on combination of Fundamental & Technical Outlook



Proprietary Measures of Fundamental & Technical Outlook  
determine "Expected" Price & Earnings Momentum

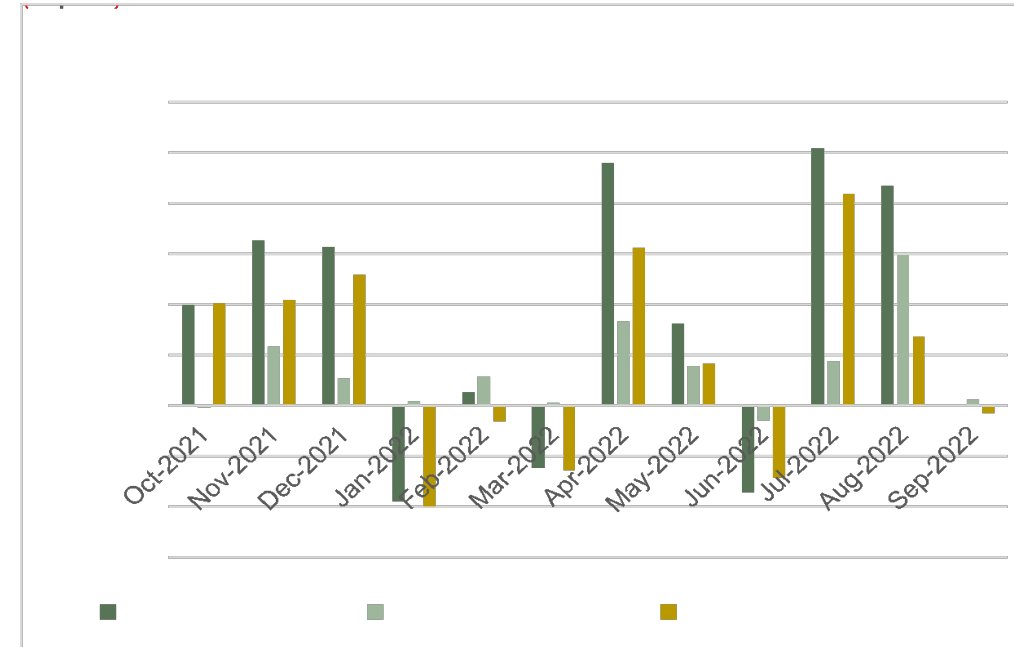
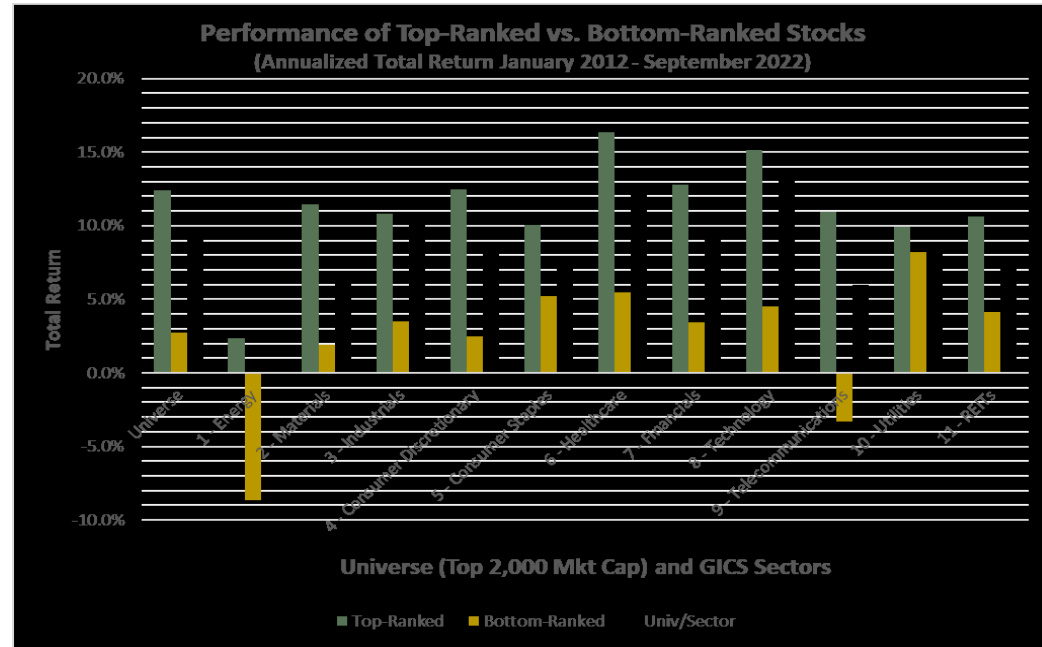
Long Candidates (1 – 8)      Short Candidates (9 – 16)

## Characterizations based on Relative-Scale Dimensional Coordinates

1	Cheap with Positive Catalytic and Positive Technical properties = "Ideal Overweight"	
8	Expensive with Negative Catalytic and Negative Technical properties = "Ideal Underweight"	
2	Cheap with Positive Catalytic properties, but has Negative Technical properties = "Early/Late Value Stock" (has Timing Risk)	
7	Expensive with Negative Catalytic properties, but has Positive Technical properties = "Momentum Stock"	
3	Expensive but has Positive Catalytic and Positive Technical properties = "Timely Growth Stock"	
6	Cheap but has Negative Catalytic and Negative Technical properties = "Value Trap Stock"	
4	Expensive with Positive Catalytic properties but has Negative Technical properties = "Early/Late Growth Stock" (has Timing Risk)	
5	Cheap with Negative Catalytic properties but has Positive Technical properties = "Mean Reversion Stock"	

Long Candidates (1 – 4)

Short Candidates (5 – 8)



**Performance of INTEGRATED iPSCORE (6 Fractiles) for GICS Sectors**

GICS SECTORS: 1-Energy, 2-Materials, 3-Industrials, 4-Consumer Discretionary, 5-Consumer Staples, 6-Healthcare, 7-Financials, 8-Technology, 9-Telecomm, 10-Utilities, 11-REITs												
1	2	3	4	5	6	7	8	9	10	11	Universe	
2.3%	11.5%	10.8%	12.5%	10.0%	16.4%	12.8%	15.2%	10.9%	9.9%	10.6%	<b>12.4%</b>	1
-1.0%	7.3%	8.9%	8.8%	7.3%	15.4%	9.6%	20.0%	8.1%	7.9%	6.1%	<b>11.8%</b>	2
2.2%	7.2%	9.8%	10.4%	1.3%	14.9%	9.2%	16.8%	6.1%	7.7%	7.1%	<b>9.3%</b>	3
-2.5%	2.0%	8.6%	6.0%	4.4%	6.7%	10.1%	9.9%	6.2%	9.9%	8.3%	<b>6.5%</b>	4
2.3%	6.6%	8.9%	7.3%	8.4%	5.5%	8.5%	10.9%	-1.5%	10.0%	3.8%	<b>8.0%</b>	5
-8.7%	1.9%	3.5%	2.5%	5.2%	5.5%	3.4%	4.5%	-3.3%	8.2%	4.1%	<b>2.8%</b>	6
1.0%	6.3%	10.4%	8.5%	7.5%	12.1%	9.8%	13.7%	6.0%	8.6%	7.3%	<b>9.2%</b>	
<b>Annualized Returns (%) Jan 2012 through Sep 2022</b>												

Six (6) fractiles formed from scoring range of 6 equal intervals. Top-ranked scores (fractile 1) to bottom-ranked scores (fractile 6).

NOTE: The Investment Universe for all performance analysis includes US common equities traded on the NYSE or Nasdaq OTC that were among the top 2,000 names by market capitalization for each time period during the time series from January 2012 through September 2022.

1-Month Relative Performance over Last 12 Months												
UNIVERSE	Oct-2021	Nov-2021	Dec-2021	Jan-2022	Feb-2022	Mar-2022	Apr-2022	May-2022	Jun-2022	Jul-2022	Aug-2022	Sep-2022
Top vs. Bottom	2.00%	3.27%	3.14%	(1.90%)	0.27%	(1.23%)	4.81%	1.62%	(1.72%)	5.09%	4.35%	(0.02%)
Top vs. Universe	(0.03%)	1.18%	0.55%	0.09%	0.58%	0.06%	1.68%	0.79%	(0.30%)	0.89%	2.98%	0.12%
Universe vs. Bottom	2.03%	2.09%	2.59%	(1.99%)	(0.30%)	(1.29%)	3.13%	0.83%	(1.42%)	4.20%	1.37%	(0.14%)

1-Month Total Return over Last 12 Months												
UNIVERSE	Oct-2021	Nov-2021	Dec-2021	Jan-2022	Feb-2022	Mar-2022	Apr-2022	May-2022	Jun-2022	Jul-2022	Aug-2022	Sep-2022
Fractile 1 (Top)	4.28%	(3.03%)	4.02%	(6.20%)	0.12%	1.12%	(6.47%)	1.31%	(8.97%)	9.42%	0.30%	(9.66%)
Fractile 2	6.28%	(2.97%)	3.76%	(5.91%)	(1.14%)	1.19%	(6.67%)	1.03%	(9.40%)	7.89%	0.98%	(10.19%)
Fractile 3	3.16%	(4.79%)	4.41%	(5.56%)	(0.43%)	0.51%	(7.90%)	(0.02%)	(8.62%)	9.18%	(2.65%)	(10.03%)
Fractile 4	3.27%	(6.26%)	2.20%	(8.16%)	(1.35%)	0.50%	(9.36%)	0.15%	(8.67%)	8.88%	(2.83%)	(10.22%)
Fractile 5	5.22%	(5.02%)	3.06%	(10.00%)	(0.54%)	1.89%	(7.83%)	(0.66%)	(8.61%)	5.51%	(4.38%)	(5.90%)
Fractile 6 (Bottom)	2.28%	(6.30%)	0.88%	(4.30%)	(0.15%)	2.35%	(11.28%)	(0.31%)	(7.25%)	4.33%	(4.05%)	(9.64%)
Universe	4.31%	(4.21%)	3.47%	(6.29%)	(0.46%)	1.06%	(8.15%)	0.53%	(8.67%)	8.53%	(2.68%)	(9.79%)

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