Thomas P Vaid

List of Publications by Year
in descending order

58	3,237	25	56
papers	citations	h-index	g-index
		236925	149698

61	61	61	3583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cross-Reactive Chemical Sensor Arrays. Chemical Reviews, 2000, 100, 2595-2626.	47.7	1,194
2	Quantitative Study of the Resolving Power of Arrays of Carbon Blackâˆ’Polymer Composites in Various Vapor-Sensing Tasks. Analytical Chemistry, 1998, 70, 4177-4190.	6.5	159
3	Synthesis and Characterization of a Highly Reducing Neutral â€œExtended Viologenâ€•and the Isostructural Hydrocarbon 4,4â€˜Ââ€˜â€˜Ââ€˜-Di-n-octyl-p-quaterphenyl. Journal of the American Chemical Society, 2005, 127, 16559-16566.	13.7	145
4	An Antiaromatic Porphyrin Complex:Â Tetraphenylporphyrinato(silicon)(L)2(L = THF or Pyridine). Journal of the American Chemical Society, 2005, 127, 12212-12213.	13.7	141
5	3D Printed Molecules and Extended Solid Models for Teaching Symmetry and Point Groups. Journal of Chemical Education, 2014, 91, 1174-1180.	2.3	130
6	Isolation and Characterization of Phenyl Viologen as a Radical Cation and Neutral Molecule. Journal of Organic Chemistry, 2005, 70, 5028-5035.	3.2	118
7	Semiconducting Leadâˆ’Sulfurâˆ’Organic Network Solids. Journal of the American Chemical Society, 2008, 130, 14-15.	13.7	108
8	Reversible Oxidation State Change in Germanium(tetraphenylporphyrin) Induced by a Dative Ligand:Â Aromatic GeII(TPP) and Antiaromatic GeIV(TPP)(pyridine)2. Journal of the American Chemical Society, 2007, 129, 7841-7847.	13.7	100
9	Germanium Phthalocyanine, GePc, and the Reduced Complexes SiPc(pyridine)₂ and GePc(pyridine)₂ Containing Antiaromatic Ï€-Electron Circuits. Inorganic Chemistry, 2007, 46, 7713-7715.	4.0	66
10	A Porphyrin with a Câ•C Unit at Its Center. Journal of the American Chemical Society, 2011, 133, 15838-15841.	13.7	66
11	Aluminum Tetraphenylporphyrin and Aluminum Phthalocyanine Neutral Radicals. Inorganic Chemistry, 2006, 45, 2367-2369.	4.0	62
12	The Doubly Oxidized, Antiaromatic Tetraphenylporphyrin Complex [Li(TPP)][BF4]. Organic Letters, 2006, 8, 2401-2404.	4.6	61
13	Electrochemical and Electrical Behavior of (111)-Oriented Si Surfaces Alkoxylated through Oxidative Activation of Siâˆ’H Bonds. Journal of Physical Chemistry B, 2000, 104, 9947-9950.	2.6	50
14	Structural Dichotomy in Six-Coordinate d0Complexes:Â Trigonal Prismatic (tBu3SiCâ‹®C)6Ta-and Octahedral (tBu3SiCâ‹®C)6M2-(M = Zr, Hf). Journal of the American Chemical Society, 1998, 120, 10067-10079.	13.7	49
15	Structure-directing effects of ionic liquids in the ionothermal synthesis of metalâ€“organic frameworks. IUCrJ, 2017, 4, 380-392.	2.2	48
16	Covalent Three-Dimensional Titanium(IV)âˆ’Aryloxide Networks. Inorganic Chemistry, 1999, 38, 3394-3405.	4.0	47
17	Classification performance of carbon black-polymer composite vapor detector arrays as a function of array size and detector composition. Sensors and Actuators B: Chemical, 2002, 87, 130-149.	7.8	47
18	Comparison of the Performance of Different Discriminant Algorithms in Analyte Discrimination Tasks Using an Array of Carbon Blackâˆ’Polymer Composite Vapor Detectors. Analytical Chemistry, 2001, 73, 321-331.	6.5	43

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19	Hexakis(4-(<i>N</i>-butylpyridylium))benzene:â€‰ A Six-Electron Organic Redox System. Journal of Organic Chemistry, 2008, 73, 445-450.	3.2	37
20	Bis(diisopropylamino)cyclopropenium-arene Cations as High Oxidation Potential and High Stability Catholytes for Non-aqueous Redox Flow Batteries. Journal of the American Chemical Society, 2020, 142, 17564-17571.	13.7	37
21	Covalent 3- and 2-Dimensional Titaniumâ˜'Quinone Networks. Journal of the American Chemical Society, 1997, 119, 8742-8743.	13.7	33
22	Photophysics of Reduced Silicon Tetraphenylporphyrin. Journal of Physical Chemistry B, 2007, 111, 2138-2142.	2.6	33
23	An organic super-electron-donor as a high energy density negative electrolyte for nonaqueous flow batteries. Chemical Communications, 2019, 55, 11037-11040.	4.1	31
24	Simultaneously Enhancing the Redox Potential and Stability of Multi-Redox Organic Catholytes by Incorporating Cyclopropenium Substituents. Journal of the American Chemical Society, 2021, 143, 13450-13459.	13.7	29
25	Covalent Metalâ˜'Organic Networks:Â Pyridines Induce 2-Dimensional Oligomerization of (Î¼-OC6H4O)2Mpy2(M = Ti, V, Zr). Inorganic Chemistry, 2000, 39, 4756-4765.	4.0	28
26	Experimental Protocols for Studying Organic Non-aqueous Redox Flow Batteries. ACS Energy Letters, 2021, 6, 3932-3943.	17.4	25
27	Cadmium and zinc thiolate and selenolate metalâ€“organic frameworks. Dalton Transactions, 2010, 39, 5070.	3.3	23
28	Synthesis, Characterization, and Calculated Electronic Structure of the Crystalline Metalâ€“Organic Polymers [Hg(SC6H4S)(en)]n and [Pb(SC6H4S)(dien)]n. Inorganic Chemistry, 2012, 51, 370-376.	4.0	23
29	Thermodynamic and electronic properties of tunable IIâ€“VI and IVâ€“VI semiconductor based metalâ€“organic frameworks from computational chemistry. Journal of Materials Chemistry C, 2013, 1, 95-100.	5.5	23
30	Computational screening of structural and compositional factors for electrically conductive coordination polymers. Physical Chemistry Chemical Physics, 2014, 16, 14463-14472.	2.8	23
31	Development of High Energy Density Diaminocyclopropeniumâ€Phenothiazine Hybrid Catholytes for Nonâ€Aqueous Redox Flow Batteries. Angewandte Chemie - International Edition, 2021, 60, 27039-27045.	13.8	23
32	Extracting absolute titanium-alkyl and-hydride bond enthalpies from relative D(TiR(H)) in (silox)2(tBu3SiNH)TiR: electronegativity and ECT models. Inorganica Chimica Acta, 1998, 270, 414-423.	2.4	22
33	Aluminum and lithium octa(pentoxy)phthalocyanine radicals. Polyhedron, 2005, 24, 3004-3011.	2.2	19
34	Investigations of the 9,10-Diphenylacridyl Radical as an Isostructural Dopant for the Molecular Semiconductor 9,10-Diphenylanthracene. Chemistry of Materials, 2003, 15, 4292-4299.	6.7	18
35	Doping of an organic molecular semiconductor by substitutional cocrystallization with a molecular n-dopant. Journal of Materials Chemistry, 2007, 17, 469-475.	6.7	15
36	Syntheses and electrochemistry of (p-XC6H4O)6W (1-X, X=H, CH3, OCH3, Cl, Br, OH, OCH2Ph) and (p-XC6H4O)5W(OC6H4OH) (X=H, CH3, OCH3, Cl, Br): an approach to electrocatalytic CH bond activation. Polyhedron, 2004, 23, 2841-2856.	2.2	13

#	ARTICLE	IF	CITATIONS
37	Hydrogen bonds between polyphenol (p-HOC6H4O)6W and bipyridines: (4,4â€²-bipyÂ·HOC6H4O)6W and 3-D networks [{4,4â€²-(NC5H4)2(CH2CH2)}n{(HOC6H4O)6W}]â´ž (n = 2, 3). Chemical Communications, 2001, , 1300-1301.	4.1	12
38	Salt loading in MOFs: solvent-free and solvent-assisted loading of NH₄NO₃ and LiNO₃ in UiO-66. Dalton Transactions, 2019, 48, 13483-13490.	3.3	11
39	Adsorption of tetranitromethane in zeolitic imidazolate frameworks yields energetic materials. Dalton Transactions, 2019, 48, 7509-7513.	3.3	11
40	Confusing Ions on Purpose: How Many Parent Acid Molecules Can Be Incorporated in a Herbicidal Ionic Liquid?. ACS Sustainable Chemistry and Engineering, 2021, 9, 1941-1948.	6.7	11
41	The use of â€˜electronic noseâ€™ sensor responses to predict the inhibition activity of alcohols on the cytochrome P-450 catalyzed p -hydroxylation of aniline. Bioorganic and Medicinal Chemistry, 2000, 8, 795-805.	3.0	10
42	Tuning Band Gap Energies in Pb3(C6X6) Extended Solid-State Structures. Journal of Physical Chemistry C, 2012, 116, 8370-8378.	3.1	9
43	Polythianthrene ladder oligomers function as an organic battery electrode with a high oxidation potential. Synthetic Metals, 2017, 231, 44-50.	3.9	9
44	Synthesis, Structure, and Magnetic Properties of [(CH₃CN)₅Vâ˜'Oâ˜'V(CH₃CN)₅][BF₄]₄. Inorganic Chemistry, 2007, 46, 9672-9677.	4.0	8
45	Salt nanoconfinement in zirconium-based metalâ€"organic frameworks leads to pore-size and loading-dependent ionic conductivity enhancement. Chemical Communications, 2020, 56, 7245-7248.	4.1	8
46	Synthesis of Protected Benzenepolyselenols. Journal of Organic Chemistry, 2012, 77, 9397-9400.	3.2	7
47	Electrical conductivity in two mixed-valence liquids. Physical Chemistry Chemical Physics, 2015, 17, 14107-14114.	2.8	7
48	A Nonaqueous Redoxâ€Matched Flow Battery with Charge Storage in Insoluble Polymer Beads**. Chemistry - A European Journal, 2022, 28, e202200149.	3.3	7
49	Synthesis of 9,10â€Dimethylâ€2,3,6,7â€Anthracenetetra(thioacetate) and Benzenepentathiol; Improved Syntheses of 1,2,4,5â€Benzenetetra(thioacetate) and Benzenehexathiol. ChemistrySelect, 2016, 1, 2163-2166.	1.5	6
50	Metal carbonate complexes formed through the capture of ambient O2 and CO2 by elemental metals in 1-methylimidazole: molecular Cu(CO3)(MeIm)3 and polymeric M(CO3)(MeIm)2Â·2H2O (M = Co, Zn). Dalton Transactions, 2017, 46, 8920-8923.	3.3	6
51	<title>Classification performance of carbon black-polymer composite vapor detector arrays as a function of array size and detector composition</title>. , 2002, 4742, 520.		5
52	Hidden superlattice in Tl₂(SC₆H₄S) and Tl₂(SeC₆H₄Se) solved from powder X-ray diffraction. Acta Crystallographica Section B: Structural Science, 2011, 67, 409-415.	1.8	5
53	Electronic structure and photophysics of (C=C)tetra-p-tolylporphyrin2+. Photochemical and Photobiological Sciences, 2013, 12, 1774-1779.	2.9	4
54	Crystallographic Insights into the Behavior of Highly Acidic Metal Cations in Ionic Liquids from Reactions of Titanium Tetrachloride with [1-Butyl-3-Methylimidazolium][X] Ionic Liquids (X = Chloride,) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.0	4

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55	Development of High Energy Density Diaminocyclopropeniumâ€Phenothiazine Hybrid Catholytes for Nonâ€Aqueous Redox Flow Batteries. Angewandte Chemie, 2021, 133, 27245-27251.	2.0	4
56	Has Monopotassium Phthalocyanine, KPc, Been Synthesized?. Inorganic Chemistry, 2007, 46, 4360-4361.	4.0	2
57	Sensing and Discrimination of Vapors by an Array of Conducting Carbon Black-Polymer Composites. Digest of Technical Papers SID International Symposium, 1999, 30, 800.	0.3	0
58	Hybrid Non-Aqueous Redox Flow Batteries with Higher Capacity By Adopting a Redox-Targeting Reaction. ECS Meeting Abstracts, 2021, MA2021-02, 1690-1690.	0.0	0