Valentina Colombo

List of Publications by Year
in descending order

39 papers	2,198 citations	430874 18 h-index	302126 39 g-index
39 all docs	39 docs citations	39 times ranked	3328 citing authors

#	Article	IF	Citations
1	High thermal and chemical stability in pyrazolate-bridged metalâ€“organic frameworks with exposed metal sites. Chemical Science, 2011, 2, 1311.	7.4	496
2	Highly Hydrophobic Isoreticular Porous Metalâ€“Organic Frameworks for the Capture of Harmful Volatile Organic Compounds. Angewandte Chemie - International Edition, 2013, 52, 8290-8294.	13.8	264
3	Tailorâ€Made Microporous Metalâ€“Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. Advanced Materials, 2018, 30, e1805088.	21.0	241
4	Tuning the Adsorption Properties of Isoreticular Pyrazolate-Based Metalâ€“Organic Frameworks through Ligand Modification. Journal of the American Chemical Society, 2012, 134, 12830-12843.	13.7	184
5	Cationâ€Exchange Porosity Tuning in Anionic Metalâ€“Organic Frameworks for the Selective Separation of Gases and Vapors and for Catalysis. Angewandte Chemie - International Edition, 2010, 49, 7308-7311.	13.8	152
6	Cubic Octanuclear Ni(II) Clusters in Highly Porous Polypyrazolyl-Based Materials. Journal of the American Chemical Society, 2010, 132, 7902-7904.	13.7	140
7	Selective nitrogen adsorption via backbonding in a metalâ€“organic framework with exposed vanadium sites. Nature Materials, 2020, 19, 517-521.	27.5	121
8	Improved CO₂ Capture from Flue Gas by Basic Sites, Charge Gradients, and Missing Linker Defects on Nickel Face Cubic Centered MOFs. Advanced Functional Materials, 2014, 24, 6130-6135.	14.9	72
9	Discovery of an Optimal Porous Crystalline Material for the Capture of Chemical Warfare Agents. Chemistry of Materials, 2018, 30, 4571-4579.	6.7	62
10	Stabilization by Configurational Entropy of the Cu(II) Active Site during CO Oxidation on Mg_{0.2}Co_{0.2}Ni_{0.2}Cu_{0.2}Zn_{0.2}O. Journal of Physical Chemistry Letters, 2020, 11, 3589-3593.	4.6	46
11	Facts and Factors in the Formation and Stability of Binary Crystals. Crystal Growth and Design, 2016, 16, 6095-6104.	3.0	43
12	Structural Changes in a Macrozoobenthos Assemblage After Imidacloprid Pulses in Aquatic Field-Based Microcosms. Archives of Environmental Contamination and Toxicology, 2013, 65, 683-692.	4.1	35
13	Municipal wastewater effluent licensing: A global perspective and recommendations for best practice. Science of the Total Environment, 2017, 580, 1327-1339.	8.0	31
14	Two-component organic crystals without hydrogen bonding: structure and intermolecular interactions in bimolecular stacking. CrystEngComm, 2017, 19, 2413-2423.	2.6	30
15	Stability vs. reactivity: understanding the adsorption properties of Ni3(BTP)2 by experimental and computational methods. Dalton Transactions, 2013, 42, 6450.	3.3	27
16	Spectroscopic and adsorptive studies of a thermally robust pyrazolato-based PCP. Dalton Transactions, 2012, 41, 4012.	3.3	25
17	Bifenthrin Causes Toxicity in Urban Stormwater Wetlands: Field and Laboratory Assessment Using Austrochiltonia (Amphipoda). Environmental Science & Technology, 2017, 51, 7254-7262.	10.0	24
18	Metalorganic frameworks based on the 1,4-bis(5-tetrazolyl) benzene ligand: The Ag and Cu derivatives. Inorganica Chimica Acta, 2009, 362, 4340-4346.	2.4	23

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19	Transgenerational effects of parental nutritional status on offspring development time, survival, fecundity, and sensitivity to zinc in Chironomus tepperi midges. Ecotoxicology and Environmental Safety, 2014, 110, 1-7.	6.0	19
20	Effects of Lumbriculus variegatus (Annelida, Oligochaete) bioturbation on zinc sediment chemistry and toxicity to the epi-benthic invertebrate Chironomus tepperi (Diptera: Chironomidae). Environmental Pollution, 2016, 216, 198-207.	7.5	18
21	Chiral (cyclopentadienone)iron complexes with a stereogenic plane as pre-catalysts for the asymmetric hydrogenation of polar double bonds. Tetrahedron, 2019, 75, 1415-1424.	1.9	15
22	Probing Hydrogen Bond Networks in Half-Sandwich Ru(II) Building Blocks by a Combined 1H DQ CRAMPS Solid-State NMR, XRPD, and DFT Approach. Inorganic Chemistry, 2014, 53, 139-146.	4.0	14
23	Thiazolo[5,4-d]thiazole-2,5-dicarboxylic acid, C6H2N2O4S2, and its coordination polymers. Solid State Sciences, 2010, 12, 795-802.	3.2	13
24	Tetrameric Silver(I) Complex with Bridging N-Heterocyclic Carbene Ligands: [(iPrIm)Ag(NO3)]4. Organometallics, 2014, 33, 5610-5613.	2.3	12
25	Crystal Chemistry of the Antibiotic Doripenem. Journal of Pharmaceutical Sciences, 2014, 103, 3641-3647.	3.3	12
26	Adsorption Properties of Ce5(BDC)7.5(DMF)4 MOF. Inorganics, 2020, 8, 9.	2.7	12
27	N-heterocyclic carbene copper complexes tethered to iron carbidocarbonyl clusters. Inorganic Chemistry Communication, 2014, 49, 27-29.	3.9	11
28	PIDAZTA: Structurally Constrained Chelators for the Efficient Formation of Stable Galliumâ€68 Complexes at Physiological pH. Chemistry - A European Journal, 2019, 25, 10698-10709.	3.3	11
29	A phosphorescent copper(<scp>i</scp>) coordination polymer with sodium 3,5-dimethyl-4-sulfonate pyrazolate. CrystEngComm, 2017, 19, 6020-6027.	2.6	9
30	Crystal structure of pirfenidone (5-methyl-1-phenyl-1H-pyridin-2-one): an active pharmaceutical ingredient (API). Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 984-986.	0.5	6
31	Synthesis, structural features and luminescence properties of a 1-D poly(azolato)-based coordination polymer. Polyhedron, 2015, 92, 130-136.	2.2	5
32	Sol-gel TiO₂colloidal suspensions and nanostructured thin films: structural and biological assessments. Nanotechnology, 2018, 29, 055704.	2.6	5
33	A silver(<scp>i</scp>) coordination polymer with sodium 3,5-dimethyl-4-sulfonate pyrazolate: a nice example of PXRD structure solution and time-driven crystallization. CrystEngComm, 2019, 21, 4586-4592.	2.6	5
34	Periodical trends in [Co6E(CO)16]- clusters: Structural, synthetic and energy changes produced by substitution of P with As. Journal of Organometallic Chemistry, 2017, 849-850, 130-136.	1.8	4
35	On the self-condensation of aminoguanidine leading to 1,1,4,10,10-pentaamino-2,3,5,6,8,9-hexaazadeca-1,3,5,7,9-pentaene (structure elucidation through X-ray) Tj ETQq1 1 0.784314 rgBT	1.9	4
36	Cu(II) bifunctional (N,O,Oâ€²) coordination polymer: A case study for complex ab-initio crystal structure determination from PXRD data. Solid State Sciences, 2017, 71, 22-28.	3.2	2

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37	Development of Sensor Based on Copper(II) Thiocyanate Pyridine Polymeric Complex for Detection of Catechol. IEEE Sensors Journal, 2019, 19, 10198-10206.	4.7	2
38	The influence of potential stressors on oviposition site selection and subsequent growth, survival and emergence of the nonâ€biting midge (Chironomus tepperi). Ecology and Evolution, 2019, 9, 5512-5522.	1.9	2
39	Different Metallophilic Attitudes Revealed by Compression. Inorganic Chemistry, 2020, 59, 2223-2227.	4.0	2