Valeska P Ting

List of Publications by Year
in descending order

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77 papers	2,177 citations	236833 25 h-index	254106 43 g-index
82 all docs	82 docs citations	82 times ranked	3416 citing authors

#	Article	IF	Citations
1	Gas sensing using porous materials for automotive applications. Chemical Society Reviews, 2015, 44, 4290-4321.	18.7	406
2	Responsive cellulose-hydrogel composite ink for 4D printing. Materials and Design, 2018, 160, 108-118.	3.3	162
3	Hierarchical Metalâ€“Organic Frameworks with Macroporosity: Synthesis, Achievements, and Challenges. Nano-Micro Letters, 2019, 11, 54.	14.4	87
4	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
5	Effect of support of Co-Na-Mo catalysts on the direct conversion of CO2 to hydrocarbons. Journal of CO2 Utilization, 2016, 16, 97-103.	3.3	65
6	Multifunctional composites: a metamaterial perspective. Multifunctional Materials, 2019, 2, 043001.	2.4	59
7	Direct Evidence for Solid-like Hydrogen in a Nanoporous Carbon Hydrogen Storage Material at Supercritical Temperatures. ACS Nano, 2015, 9, 8249-8254.	7.3	57
8	Co-production of bio-oil and propylene through the hydrothermal liquefaction of polyhydroxybutyrate producing cyanobacteria. Bioresource Technology, 2016, 207, 166-174.	4.8	52
9	Crystallography of hydrogen-containing compounds: realizing the potential of neutron powder diffraction. Chemical Communications, 2009, , 2973.	2.2	46
10	Structural isotope effects in metal hydrides and deuterides. Physical Chemistry Chemical Physics, 2010, 12, 2083.	1.3	42
11	Cisplatin: Polymorphism and Structural Insights into an Important Chemotherapeutic Drug. Angewandte Chemie - International Edition, 2010, 49, 9408-9411.	7.2	41
12	Defective hierarchical porous copper-based metal-organic frameworks synthesised via facile acid etching strategy. Scientific Reports, 2019, 9, 10887.	1.6	37
13	Design and operation of an inexpensive, laboratory-scale, continuous hydrothermal liquefaction reactor for the conversion of microalgae produced during wastewater treatment. Fuel Processing Technology, 2017, 165, 102-111.	3.7	36
14	Toward Process-Resilient Lignin-Derived Activated Carbons for Hydrogen Storage Applications. ACS Sustainable Chemistry and Engineering, 2020, 8, 2186-2195.	3.2	33
15	Flexible ZIFs: probing guestâ€induced flexibility with CO₂, N₂ and Ar adsorption. Journal of Chemical Technology and Biotechnology, 2019, 94, 3787-3792.	1.6	33
16	Controlled Formation of Hierarchical Metalâ€“Organic Frameworks Using CO₂-Expanded Solvent Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 7887-7893.	3.2	32
17	A structure and phase analysis investigation of the â€œ1:1â€•ordered A2InNbO6 perovskites (A=Ca2+, Sr2+,) Tj ETQq1 1 0.784314 r	1.4	31
18	Mixed-linker approach in designing porous zirconium-based metalâ€“organic frameworks with high hydrogen storage capacity. Chemical Communications, 2016, 52, 7826-7829.	2.2	31

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19	Structureâ€“property relationships in metal-organic frameworks for hydrogen storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 496, 77-85.	2.3	31
20	Novel low energy hydrogenâ€“deuterium isotope breakthrough separation using a trapdoor zeolite. Chemical Engineering Journal, 2016, 288, 161-168.	6.6	30
21	Supercritical hydrogen adsorption in nanostructured solids with hydrogen density variation in pores. Adsorption, 2013, 19, 643-652.	1.4	29
22	Local crystal chemistry, structured diffuse scattering and the dielectric properties of (Bi1â^'xYx)2(MIIINbV)O7 (M=Fe3+, In3+) Bi-pyrochlores. Journal of Solid State Chemistry, 2006, 179, 2495-2505.	1.4	28
23	Rapid ultrasound-assisted synthesis of controllable Zn/Co-based zeolitic imidazolate framework nanoparticles for heterogeneous catalysis. Microporous and Mesoporous Materials, 2021, 314, 110777.	2.2	27
24	An electron diffraction and bond valence sum study of the space group symmetries and structures of the photocatalytic 1:1 ordered A2InNbO6 double perovskites (A=Ca2+, Sr2+, Ba2+). Journal of Solid State Chemistry, 2004, 177, 979-986.	1.4	26
25	A structure, conductivity and dielectric properties investigation of A3CoNb2O9 (A=Ca2+, Sr2+, Ba2+) triple perovskites. Journal of Solid State Chemistry, 2004, 177, 4428-4442.	1.4	26
26	Analysis of hydrogen storage in nanoporous materials for low carbon energy applications. Faraday Discussions, 2011, 151, 59.	1.6	26
27	Old friends in a new light: â€œSnSbâ€•revisited. Journal of Solid State Chemistry, 2006, 179, 404-412.	1.4	25
28	Effect of pore geometry on ultra-densified hydrogen in microporous carbons. Carbon, 2021, 173, 968-979.	5.4	25
29	High-pressure adsorptive storage of hydrogen in MIL-101 (Cr) and AX-21 for mobile applications: Cryocharging and cryokinetics. Materials and Design, 2016, 89, 1086-1094.	3.3	24
30	The sustainable materials roadmap. JPhys Materials, 2022, 5, 032001.	1.8	24
31	An electron diffraction and bond valence sum study of the space group symmetries and structures of the photocatalytic 1:2 B site ordered A3CoNb2O9 perovskites (A=Ca2+, Sr2+, Ba2+). Journal of Solid State Chemistry, 2004, 177, 2295-2304.	1.4	23
32	Isosteric enthalpies for hydrogen adsorbed on nanoporous materials at high pressures. Adsorption, 2014, 20, 373-384.	1.4	23
33	Improving comparability of hydrogen storage capacities ofÂnanoporous materials. International Journal of Hydrogen Energy, 2012, 37, 2728-2736.	3.8	22
34	Thermal expansion and cation disorder in Bi2InNbO7. Journal of Solid State Chemistry, 2005, 178, 1575-1579.	1.4	21
35	High volumetric and energy densities of methane stored in nanoporous materials at ambient temperatures and moderate pressures. Chemical Engineering Journal, 2015, 272, 38-47.	6.6	20
36	An Electron and X-Ray Diffraction Investigation of Ni1+xTe2 and Ni1+xSe2CdI2/NiAs Type Solid Solution Phases. Journal of Solid State Chemistry, 2001, 161, 266-273.	1.4	18

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37	A combined diffraction and dielectric properties investigation of Ba3MnNb2O9 complex perovskites. Journal of Solid State Chemistry, 2005, 178, 3389-3395.	1.4	18
38	Modelling the potential of adsorbed hydrogen for use in aviation. Microporous and Mesoporous Materials, 2015, 209, 135-140.	2.2	17
39	Influence of Aromatic Structure on the Thermal Behaviour of Lignin. Waste and Biomass Valorization, 2020, 11, 2863-2876.	1.8	17
40	The effect of precursor structure on porous carbons produced by iron-catalyzed graphitization of biomass. Materials Advances, 2020, 1, 3281-3291.	2.6	17
41	Controlling Protein Nanocage Assembly with Hydrostatic Pressure. Journal of the American Chemical Society, 2020, 142, 20640-20650.	6.6	17
42	Analysis of optimal conditions for adsorptive hydrogen storage in microporous solids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 437, 113-119.	2.3	16
43	Determining hydrogen positions in crystal engineered organic molecular complexes by joint neutron powder and single crystal X-ray diffraction. CrystEngComm, 2014, 16, 1232-1236.	1.3	16
44	Zeolite Y supported nickel phosphide catalysts for the hydrodenitrogenation of quinoline as a proxy for crude bio-oils from hydrothermal liquefaction of microalgae. Dalton Transactions, 2018, 47, 1189-1201.	1.6	16
45	Production of Biodiesel from Vietnamese Waste Coffee Beans: Biofuel Yield, Saturation and Stability are All Elevated Compared with Conventional Coffee Biodiesel. Waste and Biomass Valorization, 2017, 8, 1237-1245.	1.8	15
46	Nanoporous electrospun cellulose acetate butyrate nanofibres for oil sorption. Materials Letters, 2020, 261, 127116.	1.3	15
47	Graphene oxide as a template for a complex functional oxide. CrystEngComm, 2015, 17, 6094-6097.	1.3	14
48	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	1.6	14
49	In situ neutron powder diffraction and structure determination in controlled humidities. Chemical Communications, 2009, , 7527.	2.2	13
50	Neutron powder diffraction â€“ new opportunities in hydrogen location in molecular and materials structure. Crystallography Reviews, 2014, 20, 162-206.	0.4	13
51	One-step production of monolith-supported long carbon nanotube arrays. Carbon, 2013, 51, 327-334.	5.4	12
52	Regulation of Scaffold Cell Adhesion Using Artificial Membrane Binding Proteins. Macromolecular Bioscience, 2017, 17, 1600523.	2.1	12
53	Visible light promoted photocatalytic water oxidation: proton and electron collection via a reversible redox dye mediator. Catalysis Science and Technology, 2016, 6, 3718-3722.	2.1	11
54	Understanding the AC conductivity and permittivity of trapdoor chabazites for future development of next-generation gas sensors. Microporous and Mesoporous Materials, 2018, 260, 208-216.	2.2	11

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55	Visible light promoted photocatalytic water oxidation: effect of metal oxide catalyst composition and light intensity. Catalysis Science and Technology, 2015, 5, 4760-4764.	2.1	10
56	Improved photodegradation of anionic dyes using a complex graphitic carbon nitride and iron-based metalâ€“organic framework material. Faraday Discussions, 2021, 231, 81-96.	1.6	10
57	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. Faraday Discussions, 2017, 201, 87-99.	1.6	9
58	Hydrothermal Conversion of Lipid-Extracted Microalgae Hydrolysate in the Presence of Isopropanol and Steel Furnace Residues. Waste and Biomass Valorization, 2018, 9, 1867-1879.	1.8	9
59	Using Supercritical CO2 in the Preparation of Metal-Organic Frameworks: Investigating Effects on Crystallisation. Crystals, 2020, 10, 17.	1.0	9
60	Kinetics and enthalpies of methane adsorption in microporous materials AX-21, MIL-101 (Cr) and TE7. Chemical Engineering Research and Design, 2021, 169, 153-164.	2.7	9
61	Catalytic cracking of sterol-rich yeast lipid. Fuel, 2014, 130, 315-323.	3.4	8
62	Polynuclear Complexes as Precursor Templates for Hierarchical Microporous Graphitic Carbon: An Unusual Approach. ACS Applied Materials & Interfaces, 2018, 10, 25967-25971.	4.0	8
63	Mechanism of CO2 capture in nanostructured sodium amide encapsulated in porous silica. Surface and Coatings Technology, 2018, 350, 227-233.	2.2	7
64	Sound absorption in Hilbert fractal and coiled acoustic metamaterials. Applied Physics Letters, 2022, 120, .	1.5	7
65	New directions in gas sorption and separation with MOFs: general discussion. Faraday Discussions, 2017, 201, 175-194.	1.6	6
66	Application of Experimental Design to Hydrogen Storage: Optimisation of Lignin-Derived Carbons. Journal of Carbon Research, 2019, 5, 82.	1.4	6
67	Manipulation of the crystalline phase diagram of hydrogen through nanoscale confinement effects in porous carbons. Nanoscale, 2022, 14, 7250-7261.	2.8	6
68	Probing hydrogen positions in hydrous compounds: information from parametric neutron powder diffraction studies. Physical Chemistry Chemical Physics, 2012, 14, 6914.	1.3	4
69	Effect of mono- and divalent extra-framework cations on the structure and accessibility of porosity in chabazite zeolites. CrystEngComm, 2021, 23, 857-863.	1.3	4
70	Stacking fault disorder and its diffraction consequences in Ba3MNb2O9 (M=Co and Mn) 1:2 triple perovskites. Physica B: Condensed Matter, 2006, 385-386, 564-566.	1.3	2
71	Mesoporous tertiary oxides via a novel amphiphilic approach. APL Materials, 2016, 4, 015701.	2.2	2
72	Advanced characterisation techniques: multi-scale, in situ, and time-resolved: general discussion. Faraday Discussions, 2021, 225, 152-167.	1.6	2

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73	Hydrogen Adsorption in Metalâ€“Organic Framework MIL-101(Cr)â€”Adsorbate Densities and Enthalpies from Sorption, Neutron Scattering, In Situ X-ray Diffraction, Calorimetry, and Molecular Simulations. ACS Applied Energy Materials, 2021, 4, 7839-7847.	2.5	2
74	A temperature-dependent structural investigation of electrical transitions in A3conb2o9 perovskites (A=Ca2+, Sr2+, Ba2+). Physica B: Condensed Matter, 2006, 385-386, 558-560.	1.3	1
75	The kinetics of bulk hydration of the disaccharides Î±-lactose and trehalose by in situ neutron powder diffraction. MedChemComm, 2010, 1, 345.	3.5	1
76	Synthesis of porous high-temperature superconductors via a melamine formaldehyde sacrificial template. Nanoscale Advances, 0, , .	2.2	1
77	Materials breaking the rules: general discussion. Faraday Discussions, 2021, 225, 255-270.	1.6	0