

Camille Petit

List of Publications by Year in descending order

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95
papers

9,976
citations

57719

44
h-index

42364

92
g-index

114
all docs

114
docs citations

114
times ranked

11019
citing authors

#	ARTICLE	IF	CITATIONS
1	H ₂ , N ₂ , CO ₂ , and CH ₄ Unary Adsorption Isotherm Measurements at Low and High Pressures on Zeolitic Imidazolate Framework ZIF-8. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1674-1686.	1.0	15
2	A Response Surface Model to Predict and Experimentally Tune the Chemical, Magnetic and Optoelectronic Properties of Oxygen-Doped Boron Nitride**. <i>ChemPhysChem</i> , 2022, 23, .	1.0	7
3	Effect of Band Bending in Photoactive MOF-Based Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19342-19352.	4.0	17
4	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2022, 34, .	11.1	82
5	Using silver exchange to achieve high uptake and selectivity for propylene/propane separation in zeolite Y. <i>Chemical Engineering Journal</i> , 2022, 446, 137104.	6.6	8
6	Guidelines for Techno-Economic Analysis of Adsorption Processes. <i>Frontiers in Chemical Engineering</i> , 2021, 2, .	1.3	21
7	Hypercrosslinked Polymers as a Photocatalytic Platform for Visible-Light-Driven CO ₂ Photoreduction Using H ₂ O. <i>ChemSusChem</i> , 2021, 14, 1720-1727.	3.6	42
8	Mechanically stable structured porous boron nitride with high volumetric adsorption capacity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13366-13373.	5.2	9
9	Engineering metal-organic frameworks for adsorption-based gas separations: from process to atomic scale. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 841-875.	1.7	36
10	The development of a comprehensive toolbox based on multi-level, high-throughput screening of MOFs for CO/N ₂ separations. <i>Chemical Science</i> , 2021, 12, 12068-12081.	3.7	8
11	Real-time monitoring and hydrodynamic scaling of shear exfoliated graphene. <i>2D Materials</i> , 2021, 8, 025029.	2.0	10
12	En Route to Zero Emissions for Power and Industry with Amine-Based Post-combustion Capture. <i>Environmental Science & Technology</i> , 2021, 55, 10619-10632.	4.6	36
13	Interparticle Forces of a Native and Encapsulated Metal-Organic Framework and Their Effects on Colloidal Dispersion. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45898-45906.	4.0	3
14	Understanding trade-offs in adsorption capacity, selectivity and kinetics for propylene/propane separation using composites of activated carbon and hypercrosslinked polymer. <i>Chemical Engineering Journal</i> , 2021, 426, 131628.	6.6	11
15	Material Screening for Gas Sensing Using an Electronic Nose: Gas Sorption Thermodynamic and Kinetic Considerations. <i>ACS Sensors</i> , 2021, 6, 3808-3821.	4.0	7
16	Formation Mechanism and Porosity Development in Porous Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27429-27439.	1.5	15
17	Green Synthesis and Engineering Applications of Metal-Organic Frameworks. , 2020, , 139-162.		3
18	Exploring the limits of adsorption-based CO ₂ capture using MOFs with PVSA - from molecular design to process economics. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 212-231.	1.7	82

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19	Mechanism and stability of an Fe-based 2D MOF during the photoelectro-Fenton treatment of organic micropollutants under UVA and visible light irradiation. <i>Water Research</i> , 2020, 184, 115986.	5.3	73
20	Optimisation of Cu ⁺ impregnation of MOF-74 to improve CO/N ₂ and CO/CO ₂ separations. <i>RSC Advances</i> , 2020, 10, 5152-5162.	1.7	19
21	Band gap modulation in zirconium-based metal-organic frameworks by defect engineering. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23781-23786.	5.2	79
22	Porous boron nitride for combined CO ₂ capture and photoreduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23931-23940.	5.2	47
23	Intrinsic Thermal Desorption in a 3D Printed Multifunctional Composite CO ₂ Sorbent with Embedded Heating Capability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43337-43343.	4.0	10
24	Screening Metal-Organic Frameworks for Dynamic CO/N ₂ Separation Using Complementary Adsorption Measurement Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18336-18344.	1.8	13
25	Enhanced Hydrolytic Stability of Porous Boron Nitride via the Control of Crystallinity, Porosity, and Chemical Composition. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4282-4290.	1.5	26
26	The Effect of Materials Architecture in TiO ₂ /MOF Composites on CO ₂ Photoreduction and Charge Transfer. <i>Small</i> , 2019, 15, e1805473.	5.2	72
27	Advanced Porous Materials: Design, Synthesis, and Applications in Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7997-7998.	3.2	18
28	MOF-Based Heterojunctions: The Effect of Materials Architecture in TiO ₂ /MOF Composites on CO ₂ Photoreduction and Charge Transfer (<i>Small</i> 11/2019). <i>Small</i> , 2019, 15, 1970060.	5.2	3
29	Porous Boron Nitride Materials: Influence of Structure, Chemistry and Stability on the Adsorption of Organics. <i>Frontiers in Chemistry</i> , 2019, 7, 160.	1.8	27
30	Titanium dioxide/carbon nitride nanosheet nanocomposites for gas phase CO ₂ photoreduction under UV-visible irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 369-378.	10.8	111
31	Towards scale-up of graphene production via nonoxidizing liquid exfoliation methods. <i>AIChE Journal</i> , 2018, 64, 3246-3276.	1.8	32
32	Combined Experimental, Theoretical, and Molecular Simulation Approach for the Description of the Fluid-Phase Behavior of Hydrocarbon Mixtures within Shale Rocks. <i>Energy & Fuels</i> , 2018, 32, 5750-5762.	2.5	46
33	Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , 2018, 11, 1062-1176.	15.6	2,378
34	Tuning Thermally Treated Graphitic Carbon Nitride for H ₂ Evolution and CO ₂ Photoreduction: The Effects of Material Properties and Mid-Gap States. <i>ACS Applied Energy Materials</i> , 2018, 1, 6524-6534.	2.5	33
35	The use of metal-organic frameworks for CO purification. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10570-10594.	5.2	60
36	Present and future of MOF research in the field of adsorption and molecular separation. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 132-142.	3.8	152

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37	Metal-free dual-phase full organic carbon nanotubes/g-C ₃ N ₄ heteroarchitectures for photocatalytic hydrogen production. <i>Nano Energy</i> , 2018, 50, 468-478.	8.2	133
38	Halloysite and sepiolite @TiO ₂ nanocomposites: Synthesis characterization and photocatalytic activity in three aquatic wastes. <i>Materials Science in Semiconductor Processing</i> , 2018, 85, 1-8.	1.9	44
39	Tunable porous boron nitride: Investigating its formation and its application for gas adsorption. <i>Microporous and Mesoporous Materials</i> , 2017, 243, 154-163.	2.2	51
40	A Techno-economic analysis and systematic review of carbon capture and storage (CCS) applied to the iron and steel, cement, oil refining and pulp and paper industries, as well as other high purity sources. <i>International Journal of Greenhouse Gas Control</i> , 2017, 61, 71-84.	2.3	351
41	Hypercrosslinked polyHIPEs as precursors to designable, hierarchically porous carbon foams. <i>Polymer</i> , 2017, 115, 146-153.	1.8	48
42	CO ₂ capture and photocatalytic reduction using bifunctional TiO ₂ /MOF nanocomposites under UV-vis irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 131-140.	10.8	288
43	Template-Free Synthesis of Highly Porous Boron Nitride: Insights into Pore Network Design and Impact on Gas Sorption. <i>ACS Nano</i> , 2017, 11, 10003-10011.	7.3	96
44	Simultaneous measurement of CO ₂ sorption and swelling of phosphate-based ionic liquid. <i>Green Energy and Environment</i> , 2016, 1, 258-265.	4.7	30
45	Hierarchically porous carbon foams from pickering high internal phase emulsions. <i>Carbon</i> , 2016, 101, 253-260.	5.4	86
46	CCS @ A technology for the future: general discussion. <i>Faraday Discussions</i> , 2016, 192, 303-335.	1.6	4
47	One step synthesis of MOF@polymer composites. <i>RSC Advances</i> , 2016, 6, 17314-17317.	1.7	34
48	Carbon nitride nanosheet/metal-organic framework nanocomposites with synergistic photocatalytic activities. <i>Catalysis Science and Technology</i> , 2016, 6, 5042-5051.	2.1	116
49	Phase Equilibrium Study of the AlCl ₃ @CaCl ₂ @H ₂ O System for the Production of Aluminum Chloride Hexahydrate from Ca-Rich Flue Ash. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 359-369.	1.0	21
50	Thermodynamic and kinetic studies of the MgCl ₂ @NH ₄ Cl@NH ₃ @H ₂ O system for the production of high purity MgO from calcined low-grade magnesite. <i>AIChE Journal</i> , 2015, 61, 1933-1946.	1.8	11
51	Recent Advances in Anhydrous Solvents for CO ₂ Capture: Ionic Liquids, Switchable Solvents, and Nanoparticle Organic Hybrid Materials. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	57
52	Removal of oil droplets from water using carbonized rice husk: enhancement by surface modification using polyethylenimine. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8316-8328.	2.7	9
53	Towards the use of metal-organic frameworks for water reuse: a review of the recent advances in the field of organic pollutants removal and degradation and the next steps in the field. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22484-22506.	5.2	516
54	Magnetically controllable Pickering emulsion prepared by a reduced graphene oxide-iron oxide composite. <i>Journal of Colloid and Interface Science</i> , 2015, 438, 296-305.	5.0	64

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55	Engineering the surface of a new class of adsorbents: Metal-organic framework/graphite oxide composites. <i>Journal of Colloid and Interface Science</i> , 2015, 447, 139-151.	5.0	101
56	Thermal stability, swelling behavior and CO ₂ absorption properties of Nanoscale Ionic Materials (NIMs). <i>RSC Advances</i> , 2014, 4, 65195-65204.	1.7	23
57	Removing oil droplets from water using a copper-based metal organic frameworks. <i>Chemical Engineering Journal</i> , 2014, 249, 293-301.	6.6	107
58	Effect of canopy structures and their steric interactions on CO ₂ sorption behavior of liquid-like nanoparticle organic hybrid materials. <i>RSC Advances</i> , 2014, 4, 8723.	1.7	36
59	Design and Characterization of Liquidlike POSS-Based Hybrid Nanomaterials Synthesized via Ionic Bonding and Their Interactions with CO ₂ . <i>Langmuir</i> , 2013, 29, 12234-12242.	1.6	46
60	Effect of water on the physical properties and carbon dioxide capture capacities of liquid-like Nanoparticle Organic Hybrid Materials and their corresponding polymers. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 102-108.	5.0	30
61	Effect of SO ₂ on CO ₂ Capture Using Liquid-like Nanoparticle Organic Hybrid Materials. <i>Energy & Fuels</i> , 2013, 27, 4167-4174.	2.5	47
62	Exploring the coordination chemistry of MOF-graphite oxide composites and their applications as adsorbents. <i>Dalton Transactions</i> , 2012, 41, 4027.	1.6	217
63	Microcalorimetric insight into the analysis of the reactive adsorption of ammonia on Cu-MOF and its composite with graphite oxide. <i>Journal of Materials Chemistry</i> , 2012, 22, 21443.	6.7	25
64	Novel Approach to Hydrogen Production with Suppressed CO ₂ Generation from a Model Biomass Feedstock. <i>Energy & Fuels</i> , 2012, 26, 4486-4496.	2.5	22
65	Spectroscopic Investigation of the Canopy Configurations in Nanoparticle Organic Hybrid Materials of Various Grafting Densities during CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2012, 116, 516-525.	1.5	43
66	Reactive adsorption of acidic gases on MOF/graphite oxide composites. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 107-112.	2.2	190
67	Role of Surface Chemistry. <i>Springer Theses</i> , 2012, , 53-82.	0.0	3
68	Performance of the Materials Tested for Ammonia Removal. <i>Springer Theses</i> , 2012, , 29-33.	0.0	1
69	Mechanisms of Adsorption and Strength of Retention. <i>Springer Theses</i> , 2012, , 89-99.	0.0	0
70	Role of Textural Parameters. <i>Springer Theses</i> , 2012, , 35-51.	0.0	1
71	Toward Understanding Reactive Adsorption of Ammonia on Cu-MOF/Graphite Oxide Nanocomposites. <i>Langmuir</i> , 2011, 27, 13043-13051.	1.6	137
72	Effect of Graphite Features on the Properties of Metal-Organic Framework/Graphite Hybrid Materials Prepared Using an in Situ Process. <i>Langmuir</i> , 2011, 27, 10234-10242.	1.6	59

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73	MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. <i>Adsorption</i> , 2011, 17, 5-16.	1.4	133
74	Synthesis, Characterization, and Ammonia Adsorption Properties of Mesoporous Metal-Organic Framework (MIL(Fe))-Graphite Oxide Composites: Exploring the Limits of Materials Fabrication. <i>Advanced Functional Materials</i> , 2011, 21, 2108-2117.	7.8	294
75	The synthesis and characterization of copper-based metal-organic framework/graphite oxide composites. <i>Carbon</i> , 2011, 49, 563-572.	5.4	293
76	Hydrogen Sulfide Adsorption on MOFs and MOF/Graphite Oxide Composites. <i>ChemPhysChem</i> , 2010, 11, 3678-3684.	1.0	206
77	Enhanced Adsorption of Ammonia on Metal-Organic Framework/Graphite Oxide Composites: Analysis of Surface Interactions. <i>Advanced Functional Materials</i> , 2010, 20, 111-118.	7.8	305
78	The role of sulfur-containing groups in ammonia retention on activated carbons. <i>Carbon</i> , 2010, 48, 654-667.	5.4	99
79	The effect of oxidation on the surface chemistry of sulfur-containing carbons and their arsine adsorption capacity. <i>Carbon</i> , 2010, 48, 1779-1787.	5.4	62
80	Reactive Adsorption of Ammonia on Cu-Based MOF/Graphene Composites. <i>Langmuir</i> , 2010, 26, 15302-15309.	1.6	213
81	Reactive Adsorption of NO ₂ on Copper-Based Metal-Organic Framework and Graphite Oxide/Metal-Organic Framework Composites. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3606-3613.	4.0	152
82	MOF-Graphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metal-Organic Frameworks. <i>Advanced Materials</i> , 2009, 21, 4753-4757.	11.1	563
83	Role of surface heterogeneity in the removal of ammonia from air on micro/mesoporous activated carbons modified with molybdenum and tungsten oxides. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 61-67.	2.2	25
84	On the reactive adsorption of ammonia on activated carbons modified by impregnation with inorganic compounds. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 329-345.	5.0	120
85	Role of graphite precursor in the performance of graphite oxides as ammonia adsorbents. <i>Carbon</i> , 2009, 47, 445-456.	5.4	111
86	MOF-graphite oxide nanocomposites: surface characterization and evaluation as adsorbents of ammonia. <i>Journal of Materials Chemistry</i> , 2009, 19, 6521.	6.7	150
87	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. <i>Journal of Materials Chemistry</i> , 2009, 19, 9176.	6.7	235
88	Graphite Oxide/Polyoxometalate Nanocomposites as Adsorbents of Ammonia. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3800-3809.	1.5	110
89	Complexity of ammonia interactions on activated carbons modified with V ₂ O ₅ . <i>Journal of Colloid and Interface Science</i> , 2008, 325, 301-308.	5.0	12
90	Activated carbons modified with aluminium-zirconium polycations as adsorbents for ammonia. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 137-147.	2.2	40

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91	Removal of Ammonia from Air on Molybdenum and Tungsten Oxide Modified Activated Carbons. Environmental Science & Technology, 2008, 42, 3033-3039.	4.6	38
92	Interactions of Ammonia with the Surface of Microporous Carbon Impregnated with Transition Metal Chlorides. Journal of Physical Chemistry C, 2007, 111, 12705-12714.	1.5	96
93	Role of Aluminum Oxycations in Retention of Ammonia on Modified Activated Carbons. Journal of Physical Chemistry C, 2007, 111, 16445-16452.	1.5	37
94	Porous Boron Oxynitride for Combined CO2 Capture and Photoreduction. , 0, , .		0
95	Porous Boron Oxynitride for Combined CO2 Capture and Photoreduction. , 0, , .		0