François Xavier Coudert

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/152199/publications.pdf

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157 papers

14,315 citations

20797 60 h-index 20343 116 g-index

235 all docs

235 docs citations

times ranked

235

12184 citing authors

#	Article	IF	CITATIONS
1	Necessary and sufficient elastic stability conditions in various crystal systems. Physical Review B, 2014, 90, .	1.1	2,555
2	ELATE: an open-source online application for analysis and visualization of elastic tensors. Journal of Physics Condensed Matter, 2016, 28, 275201.	0.7	605
3	Correlated defect nanoregions in a metal–organic framework. Nature Communications, 2014, 5, 4176.	5.8	550
4	A pressure-amplifying framework material with negative gas adsorption transitions. Nature, 2016, 532, 348-352.	13.7	490
5	Mixed-metal metal–organic frameworks. Chemical Society Reviews, 2019, 48, 2535-2565.	18.7	474
6	Responsive Metal–Organic Frameworks and Framework Materials: Under Pressure, Taking the Heat, in the Spotlight, with Friends. Chemistry of Materials, 2015, 27, 1905-1916.	3.2	432
7	Interplay between defects, disorder and flexibility in metal-organic frameworks. Nature Chemistry, 2017, 9, 11-16.	6.6	342
8	Liquid metal–organic frameworks. Nature Materials, 2017, 16, 1149-1154.	13.3	326
9	Thermodynamics of Guest-Induced Structural Transitions in Hybrid Organicâ^Inorganic Frameworks. Journal of the American Chemical Society, 2008, 130, 14294-14302.	6.6	299
10	Anisotropic Elastic Properties of Flexible Metal-Organic Frameworks: How Soft are Soft Porous Crystals?. Physical Review Letters, 2012, 109, 195502.	2.9	265
11	Best practices in machine learning for chemistry. Nature Chemistry, 2021, 13, 505-508.	6.6	240
12	Zeolitic imidazole frameworks: structural and energetics trends compared with their zeolite analogues. CrystEngComm, 2009, 11, 2272.	1.3	217
13	Stress-Based Model for the Breathing of Metalâ^'Organic Frameworks. Journal of Physical Chemistry Letters, 2010, 1, 445-449.	2.1	209
14	Computational characterization and prediction of metal–organic framework properties. Coordination Chemistry Reviews, 2016, 307, 211-236.	9.5	206
15	The Behavior of Flexible MIL-53(Al) upon CH ₄ and CO ₂ Adsorption. Journal of Physical Chemistry C, 2010, 114, 22237-22244.	1.5	197
16	Breathing Transitions in MILâ€53(Al) Metal–Organic Framework Upon Xenon Adsorption. Angewandte Chemie - International Edition, 2009, 48, 8314-8317.	7.2	176
17	Structure and chemistry of graphene oxide in liquid water from first principles. Nature Communications, 2020, 11, 1566.	5.8	169
18	Defects and disorder in metal organic frameworks. Dalton Transactions, 2016, 45, 4113-4126.	1.6	159

#	Article	IF	Citations
19	Adsorption Deformation and Structural Transitions in Metal–Organic Frameworks: From the Unit Cell to the Crystal. Journal of Physical Chemistry Letters, 2013, 4, 3198-3205.	2.1	148
20	Investigating the Pressure-Induced Amorphization of Zeolitic Imidazolate Framework ZIF-8: Mechanical Instability Due to Shear Mode Softening. Journal of Physical Chemistry Letters, 2013, 4, 1861-1865.	2.1	148
21	The changing state of porous materials. Nature Materials, 2021, 20, 1179-1187.	13.3	147
22	Prediction of Breathing and Gate-Opening Transitions Upon Binary Mixture Adsorption in Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2009, 131, 11329-11331.	6.6	144
23	Predicting the Mechanical Properties of Zeolite Frameworks by Machine Learning. Chemistry of Materials, 2017, 29, 7833-7839.	3.2	144
24	Structural Transitions in MIL-53 (Cr): View from Outside and Inside. Langmuir, 2011, 27, 4734-4741.	1.6	143
25	What makes zeolitic imidazolate frameworks hydrophobic or hydrophilic? The impact of geometry and functionalization on water adsorption. Physical Chemistry Chemical Physics, 2014, 16, 9940-9949.	1.3	142
26	Defects in metal–organic frameworks: a compromise between adsorption and stability?. Dalton Transactions, 2016, 45, 4352-4359.	1.6	140
27	Metal–organic frameworks with wine-rack motif: What determines their flexibility and elastic properties?. Journal of Chemical Physics, 2013, 138, 174703.	1.2	139
28	Pressure promoted low-temperature melting of metal–organic frameworks. Nature Materials, 2019, 18, 370-376.	13.3	134
29	Defect-dependent colossal negative thermal expansion in UiO-66(Hf) metal–organic framework. Physical Chemistry Chemical Physics, 2015, 17, 11586-11592.	1.3	127
30	Experimental evidence of negative linear compressibility in the MIL-53 metal–organic framework family. CrystEngComm, 2015, 17, 276-280.	1.3	119
31	How Can a Hydrophobic MOF be Waterâ€Unstable? Insight into the Hydration Mechanism of IRMOFs. ChemPhysChem, 2012, 13, 3497-3503.	1.0	116
32	Controlled partial interpenetration in metal–organic frameworks. Nature Chemistry, 2016, 8, 250-257.	6.6	113
33	Machine learning approaches for the prediction of materials properties. APL Materials, 2020, 8, 080701.	2.2	113
34	Thermodynamic Methods and Models to Study Flexible Metal–Organic Frameworks. ChemPhysChem, 2011, 12, 247-258.	1.0	105
35	Non-Interpenetrated Metal–Organic Frameworks Based on Copper(II) Paddlewheel and Oligoparaxylene-Isophthalate Linkers: Synthesis, Structure, and Gas Adsorption. Journal of the American Chemical Society, 2016, 138, 3371-3381.	6.6	104
36	A Computational and Experimental Approach Linking Disorder, Highâ€Pressure Behavior, and Mechanical Properties in UiO Frameworks. Angewandte Chemie - International Edition, 2016, 55, 2401-2405.	7.2	103

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37	Thermal and mechanical stability of zeolitic imidazolate frameworks polymorphs. APL Materials, 2014, 2, .	2.2	99
38	Metal-organic framework crystal-glass composites. Nature Communications, 2019, 10, 2580.	5.8	97
39	Dipole Moment, Hydrogen Bonding and IR Spectrum of Confined Water. ChemPhysChem, 2006, 7, 2464-2467.	1.0	91
40	Origins of Negative Gas Adsorption. CheM, 2016, 1, 873-886.	5.8	89
41	Insulator-to-Proton-Conductor Transition in a Dense Metal–Organic Framework. Journal of the American Chemical Society, 2015, 137, 6428-6431.	6.6	83
42	Rotational Dynamics of Linkers in Metal–Organic Frameworks. Nanomaterials, 2019, 9, 330.	1.9	83
43	Remarkable Pressure Responses of Metal–Organic Frameworks: Proton Transfer and Linker Coiling in Zinc Alkyl Gates. Journal of the American Chemical Society, 2014, 136, 11540-11545.	6.6	82
44	Distribution of Sodium Cations in Faujasite-Type Zeolite:Â A Canonical Parallel Tempering Simulation Study. Journal of Physical Chemistry B, 2004, 108, 399-404.	1.2	79
45	Thermodynamic analysis of the breathing of amino-functionalized MIL-53(Al) upon CO2 adsorption. Microporous and Mesoporous Materials, 2011, 140, 108-113.	2.2	78
46	Forced intrusion of water and aqueous solutions in microporous materials: from fundamental thermodynamics to energy storage devices. Chemical Society Reviews, 2017, 46, 7421-7437.	18.7	78
47	The osmotic framework adsorbed solution theory: predicting mixture coadsorption in flexible nanoporous materials. Physical Chemistry Chemical Physics, 2010, 12, 10904.	1.3	76
48	Molecular Mechanism of Swing Effect in Zeolitic Imidazolate Framework ZIFâ€8: Continuous Deformation upon Adsorption. ChemPhysChem, 2017, 18, 2732-2738.	1.0	75
49	Mechanism of Breathing Transitions in Metal–Organic Frameworks. Journal of Physical Chemistry Letters, 2011, 2, 2033-2037.	2.1	74
50	Adsorption induced transitions in soft porous crystals: An osmotic potential approach to multistability and intermediate structures. Journal of Chemical Physics, 2013, 138, 174706.	1,2	74
51	Towards general network architecture design criteria for negative gas adsorption transitions in ultraporous frameworks. Nature Communications, 2019, 10, 3632.	5.8	73
52	Double Structural Transition in Hybrid Material MIL-53 upon Hydrocarbon Adsorption: The Thermodynamics Behind the Scenes. Journal of the American Chemical Society, 2009, 131, 3442-3443.	6.6	72
53	Water adsorption in hydrophobic MOF channels. Physical Chemistry Chemical Physics, 2010, 12, 8123.	1.3	72
54	Water nanodroplets confined in zeolite pores. Faraday Discussions, 2009, 141, 377-398.	1.6	71

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55	Computational Chemistry Methods for Nanoporous Materials. Chemistry of Materials, 2017, 29, 199-212.	3.2	69
56	Rich Polymorphism of a Metal–Organic Framework in Pressure–Temperature Space. Journal of the American Chemical Society, 2019, 141, 9330-9337.	6.6	68
57	Air separation with graphene mediated by nanowindow-rim concerted motion. Nature Communications, 2018, 9, 1812.	5 . 8	67
58	Melting of hybrid organic–inorganic perovskites. Nature Chemistry, 2021, 13, 778-785.	6.6	65
59	Molecular Insight into CO ₂ "Trapdoor―Adsorption in Zeolite Na-RHO. Chemistry of Materials, 2017, 29, 2724-2730.	3 . 2	64
60	Systematic investigation of the mechanical properties of pure silica zeolites: stiffness, anisotropy, and negative linear compressibility. Physical Chemistry Chemical Physics, 2013, 15, 16012.	1.3	62
61	Melting of Zeolitic Imidazolate Frameworks with Different Topologies: Insight from First-Principles Molecular Dynamics. Journal of Physical Chemistry C, 2018, 122, 6730-6736.	1.5	62
62	Tunable acetylene sorption by flexible catenated metal–organic frameworks. Nature Chemistry, 2022, 14, 816-822.	6.6	62
63	Carbon dioxide transport in molten calcium carbonate occurs through an oxo-Grotthuss mechanism via a pyrocarbonate anion. Nature Chemistry, 2016, 8, 454-460.	6.6	60
64	Temperature-Induced Structural Transitions in the Gallium-Based MIL-53 Metal–Organic Framework. Journal of Physical Chemistry C, 2013, 117, 8180-8188.	1.5	59
65	Free energy landscapes for the thermodynamic understanding of adsorption-induced deformations and structural transitions in porous materials. Journal of Chemical Physics, 2012, 137, 044118.	1.2	57
66	Water Adsorption in Flexible Gallium-Based MIL-53 Metal–Organic Framework. Journal of Physical Chemistry C, 2014, 118, 5397-5405.	1.5	55
67	MechElastic: A Python library for analysis of mechanical and elastic properties of bulk and 2D materials. Computer Physics Communications, 2021, 267, 108068.	3.0	54
68	Adsorption Contraction Mechanics: Understanding Breathing Energetics in Isoreticular Metal–Organic Frameworks. Journal of Physical Chemistry C, 2018, 122, 19171-19179.	1.5	52
69	Nanoscale metamaterials: Meta-MOFs and framework materials with anomalous behavior. Coordination Chemistry Reviews, 2019, 388, 48-62.	9.5	52
70	Multicomponent Metal–Organic Frameworks as Defect-Tolerant Materials. Chemistry of Materials, 2016, 28, 368-375.	3.2	51
71	Investigation of structure and dynamics of the hydrated metal–organic framework MIL-53(Cr) using first-principles molecular dynamics. Physical Chemistry Chemical Physics, 2013, 15, 19049.	1.3	50
72	Polycatenated 2D Hydrogen-Bonded Binary Supramolecular Organic Frameworks (SOFs) with Enhanced Gas Adsorption and Selectivity. Crystal Growth and Design, 2018, 18, 2555-2562.	1.4	49

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73	Prediction of flexibility of metal–organic frameworks CAU-13 and NOTT-300 by first principles molecular simulations. Chemical Communications, 2014, 50, 5867.	2.2	46
74	Predicting Mixture Coadsorption in Soft Porous Crystals: Experimental and Theoretical Study of CO ₂ /CH ₄ in MIL-53(Al). Langmuir, 2012, 28, 494-498.	1.6	45
7 5	Ab Initio Derived Force Fields for Zeolitic Imidazolate Frameworks: MOF-FF for ZIFs. Journal of Chemical Theory and Computation, 2019, 15, 2420-2432.	2.3	45
76	Heterometallic Metal–Organic Frameworks of MOF-5 and UiO-66 Families: Insight from Computational Chemistry. Journal of Physical Chemistry C, 2016, 120, 24885-24894.	1.5	43
77	Reorientational Dynamics of Water Confined in Zeolites. ChemPhysChem, 2014, 15, 521-529.	1.0	42
78	Microscopic Mechanism of Chiral Induction in a Metal–Organic Framework. Journal of the American Chemical Society, 2016, 138, 6131-6134.	6.6	41
79	Impacts of the Imidazolate Linker Substitution (CH ₃ , Cl, or Br) on the Structural and Adsorptive Properties of ZIF-8. Journal of Physical Chemistry C, 2018, 122, 26945-26955.	1.5	40
80	Recent advances in the computational chemistry of soft porous crystals. Chemical Communications, 2017, 53, 7211-7221.	2.2	37
81	Understanding adsorption-induced structural transitions in metal-organic frameworks: From the unit cell to the crystal. Journal of Chemical Physics, 2012, 137, 184702.	1.2	35
82	Speeding Up Discovery of Auxetic Zeolite Frameworks by Machine Learning. Chemistry of Materials, 2020, 32, 2653-2663.	3.2	32
83	Insight into the Li2CO3–K2CO3 eutectic mixture from classical molecular dynamics: Thermodynamics, structure, and dynamics. Journal of Chemical Physics, 2016, 144, 104507.	1.2	31
84	Transport and adsorption under liquid flow: the role of pore geometry. Soft Matter, 2017, 13, 875-885.	1.2	31
85	On the use of the IAST method for gas separation studies in porous materials with gate-opening behavior. Adsorption, 2018, 24, 233-241.	1.4	30
86	Engineering micromechanics of soft porous crystals for negative gas adsorption. Chemical Science, 2020, 11, 9468-9479.	3.7	30
87	Reproducible Research in Computational Chemistry of Materials. Chemistry of Materials, 2017, 29, 2615-2617.	3.2	28
88	Transient Catenation in a Zirconium-Based Metal–Organic Framework and Its Effect on Mechanical Stability and Sorption Properties. Journal of the American Chemical Society, 2021, 143, 1503-1512.	6.6	28
89	Understanding the Effect of Confinement on the Liquidâ^'Gas Transition: A Study of Adsorption Isotherms in a Family of Metalâ^'Organic Frameworks. Journal of Physical Chemistry C, 2010, 114, 21631-21637.	1.5	27
90	A systematic typology for negative Poisson's ratio materials and the prediction of complete auxeticity in pure silica zeolite JST. Physical Chemistry Chemical Physics, 2015, 17, 17927-17933.	1.3	27

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91	Unexpected coupling between flow and adsorption in porous media. Soft Matter, 2015, 11, 6125-6133.	1.2	27
92	Modelling photophysical properties of metal–organic frameworks: a density functional theory based approach. Physical Chemistry Chemical Physics, 2016, 18, 25176-25182.	1.3	27
93	Encoding complexity within supramolecular analogues of frustrated magnets. Nature Chemistry, 2016, 8, 442-447.	6.6	26
94	Flexibility and disorder in metal–organic frameworks. Dalton Transactions, 2016, 45, 4058-4059.	1.6	26
95	Challenges in first-principles NPT molecular dynamics of soft porous crystals: A case study on MIL-53(Ga). Journal of Chemical Physics, 2014, 141, 064703.	1.2	25
96	A Computational and Experimental Approach Linking Disorder, Highâ€Pressure Behavior, and Mechanical Properties in UiO Frameworks. Angewandte Chemie, 2016, 128, 2447-2451.	1.6	24
97	Systematic exploration of the mechanical properties of 13 621 inorganic compounds. Chemical Science, 2019, 10, 8589-8599.	3.7	24
98	Structure of Metal–Organic Framework Glasses by <i>Ab Initio</i> Molecular Dynamics. Chemistry of Materials, 2020, 32, 8004-8011.	3.2	24
99	Isolating the Role of the Node-Linker Bond in the Compression of UiO-66 Metal–Organic Frameworks. Chemistry of Materials, 2020, 32, 5864-5871.	3.2	24
100	Hydrothermal Breakdown of Flexible Metalâ€"Organic Frameworks: A Study by First-Principles Molecular Dynamics. Journal of Physical Chemistry Letters, 2015, 6, 4365-4370.	2.1	23
101	Flexibility of a Metal–Organic Framework Enhances Gas Separation and Enables Quantum Sieving. Chemistry of Materials, 2021, 33, 8886-8894.	3.2	23
102	Structure and Dynamics of Water Confined in Imogolite Nanotubes. Langmuir, 2018, 34, 6748-6756.	1.6	22
103	Structure, Dynamics, and Thermodynamics of Intruded Electrolytes in ZIF-8. Journal of Physical Chemistry C, 2019, 123, 15589-15598.	1.5	22
104	Negative Hydration Expansion in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	ml:mn>2<, ɔ> 2./9 nml:n	/mml:mn>nr @w >
105	Letters, 2018, 120, 265501. Softening upon Adsorption in Microporous Materials: A Counterintuitive Mechanical Response. Journal of Physical Chemistry Letters, 2015, 6, 4265-4269.	2.1	20
106	Prediction of Thermal Properties of Zeolites through Machine Learning. Journal of Physical Chemistry C, 2022, 126, 1651-1660.	1.5	20
107	The role of temperature and adsorbate on negative gas adsorption transitions of the mesoporous metalâ \in "organic framework DUT-49. Faraday Discussions, 2021, 225, 168-183.	1.6	19
108	High-throughput computational screening of nanoporous materials in targeted applications., 2022, 1, 355-374.		19

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109	A thermodynamic description of the adsorption-induced structural transitions in flexible MIL-53 metal-organic framework. Molecular Physics, 2014, 112, 1257-1261.	0.8	18
110	Materials Databases: The Need for Open, Interoperable Databases with Standardized Data and Rich Metadata. Advanced Theory and Simulations, 2019, 2, 1900131.	1.3	18
111	Charting a course for chemistry. Nature Chemistry, 2019, 11, 286-294.	6.6	18
112	Emergence of Coupled Rotor Dynamics in Metal–Organic Frameworks via Tuned Steric Interactions. Journal of the American Chemical Society, 2021, 143, 12053-12062.	6.6	18
113	Chiral Lanthanum Metal–Organic Framework with Gated CO ₂ Sorption and Concerted Framework Flexibility. Journal of the American Chemical Society, 2022, 144, 8725-8733.	6.6	18
114	Correcting the Scientific Record: Retraction Practices in Chemistry and Materials Science. Chemistry of Materials, 2019, 31, 3593-3598.	3.2	17
115	Ab Initio Molecular Dynamics of CdSe Quantum-Dot-Doped Glasses. Journal of the American Chemical Society, 2020, 142, 3905-3912.	6.6	17
116	Molecular Dynamics Simulations of Electronâ^'Alkali Cation Pairs in Bulk Water. Journal of Physical Chemistry B, 2006, 110, 607-615.	1.2	15
117	Modelling of framework materials at multiple scales: current practices and open questions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180220.	1.6	15
118	Water Adsorption in Soft and Heterogeneous Nanopores. Accounts of Chemical Research, 2020, 53, 1342-1350.	7.6	15
119	Open questions on water confined in nanoporous materials. Communications Chemistry, 2021, 4, .	2.0	15
120	Molecular dynamics simulations of the temperature and density dependence of the absorption spectra of hydrated electron and solvated silver atom in water. Chemical Physics Letters, 2005, 409, 219-223.	1.2	14
121	Strontium's scarlet sparkles. Nature Chemistry, 2015, 7, 940-940.	6.6	14
122	Novel Porous Polymorphs of Zinc Cyanide with Rich Thermal and Mechanical Behavior. Chemistry of Materials, 2015, 27, 4422-4430.	3.2	14
123	Mechanism of water adsorption in the large pore form of the gallium-based MIL-53 metal-organic framework. Microporous and Mesoporous Materials, 2016, 222, 145-152.	2.2	14
124	Adsorption deformation of microporous composites. Dalton Transactions, 2016, 45, 4136-4140.	1.6	14
125	Kinetic Accessibility of Porous Material Adsorption Sites Studied through the Lattice Boltzmann Method. Langmuir, 2017, 33, 1405-1411.	1.6	14
126	Emissive Azobenzenes Delivered on a Silver Coordination Polymer. Inorganic Chemistry, 2018, 57, 15009-15022.	1.9	14

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127	Atomistic Models of Amorphous Metal–Organic Frameworks. Journal of Physical Chemistry C, 2022, 126, 6905-6914.	1.5	14
128	Macroscopic Simulation of Deformation in Soft Microporous Composites. Journal of Physical Chemistry Letters, 2017, 8, 1578-1584.	2.1	13
129	Temperature Effect on the Absorption Spectrum of the Hydrated Electron Paired with a Lithium Cation in Deuterated Water. Journal of Physical Chemistry A, 2007, 111, 3548-3553.	1.1	11
130	Water evaporation in silica colloidal deposits. Journal of Colloid and Interface Science, 2013, 408, 206-211.	5.0	11
131	Mechanism and kinetics of hydrated electron diffusion. Journal of Chemical Physics, 2008, 129, 054505.	1.2	10
132	Structure and Dynamics of Solvated Polymers near a Silica Surface: On the Different Roles Played by Solvent. Journal of Physical Chemistry B, 2018, 122, 4573-4582.	1.2	9
133	The rise of preprints in chemistry. Nature Chemistry, 2020, 12, 499-502.	6.6	9
134	Identification of a Grotthuss proton hopping mechanism at protonated polyhedral oligomeric silsesquioxane (POSS) – water interface. Journal of Colloid and Interface Science, 2022, 605, 701-709.	5.0	9
135	van der Waals forces stabilize low-energy polymorphism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> :	0.9	9
136	Comment on "Volume shrinkage of a metal–organic framework host induced by the dispersive attraction of guest gas molecules― Physical Chemistry Chemical Physics, 2014, 16, 4394.	1.3	8
137	Metal–organic frameworks: the pressure is on. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 585-586.	0.5	8
138	Thermodynamic exploration of xenon/krypton separation based on a high-throughput screening. Faraday Discussions, 2021, 231, 201-223.	1.6	8
139	Confinement effect on the hydrated electron behaviour. Chemical Physics Letters, 2006, 428, 68-72.	1.2	7
140	MOF Decomposition and Introduction of Repairable Defects Using a Photodegradable Strut. Chemistry - A European Journal, 2019, 25, 8393-8400.	1.7	7
141	Systematic Study of the Thermal Properties of Zeolitic Frameworks. Journal of Physical Chemistry C, 2021, 125, 15647-15658.	1.5	7
142	Carbon species solvated in molten carbonate electrolyser cell from first-principles simulations. International Journal of Hydrogen Energy, 2021, 46, 15008-15023.	3.8	6
143	Molecular Simulation of a Zn–Triazamacrocyle Metal–Organic Frameworks Family with Extraframework Anions. Journal of Physical Chemistry C, 2012, 116, 2952-2959.	1.5	5
144	Soft Porous Crystals: Extraordinary Responses to Stimulation. Bulletin of Japan Society of Coordination Chemistry, 2019, 73, 15-23.	0.1	5

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145	Defective Nature of CdSe Quantum Dots Embedded in Inorganic Matrices. Journal of the American Chemical Society, 2022, 144, 11296-11305.	6.6	5
146	CrystalNets.jl: Identification of Crystal Topologies. SciPost Chemistry, 2022, 1, .	2.0	5
147	THEORETICAL STUDY OF NEUTRAL DIPOLAR ATOM IN WATER: STRUCTURE, SPECTROSCOPY AND FORMATION OF AN EXCITONIC STATE. Modern Physics Letters B, 2004, 18, 1327-1345.	1.0	3
148	Reactivity of an Excess Electron with Monovalent Cations in Bulk Water by Mixed Quantum Classical Molecular Dynamics Simulations. Molecular Simulation, 2004, 30, 749-754.	0.9	3
149	Adsorption in complex porous networks with geometrical and chemical heterogeneity. Molecular Simulation, 2014, 40, 16-24.	0.9	3
150	Influence of Glass Composition on the Luminescence Mechanisms of CdSe Quantum-Dot-Doped Glasses. Journal of Physical Chemistry C, 2021, 125, 18916-18926.	1.5	3
151	Thermodynamic Methods for Prediction of Gas Separation in Flexible Frameworks., 2011,, 49-68.		2
152	Conformational chiral polymorphism in cis-bis-triphenylphosphine complexes of transition metals. CrystEngComm, 2018, 20, 5137-5142.	1.3	2
153	Novel computational tools: general discussion. Faraday Discussions, 2021, 225, 341-357.	1.6	1
154	Hydrothermal and Mechanical Stability of Metal-Organic Frameworks. , 2013, , .		0
155	Adsorption-Induced Breathing Transitions in Metal-Organic Frameworks. , 2013, , .		0
156	Molecular simulation of framework materials. Molecular Simulation, 2015, 41, 1309-1310.	0.9	0
157	Complexity in supramolecular analogues of frustrated magnets at high pressure. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1420-C1420.	0.0	0