

Janine George

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

673
citations

14
h-index

25
g-index

59
ext. papers

954
ext. citations

6.6
avg, IF

4.6
L-index

#	Paper	IF	Citations
41	LOBSTER: Local orbital projections, atomic charges, and chemical-bonding analysis from projector-augmented-wave-based density-functional theory. <i>Journal of Computational Chemistry</i> , 2020 , 41, 1931-1940	3.5	155
40	Cooperativity of halogen, chalcogen, and pnictogen bonds in infinite molecular chains by electronic structure theory. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 3193-200	2.8	81
39	Plane-Wave Density Functional Theory Meets Molecular Crystals: Thermal Ellipsoids and Intermolecular Interactions. <i>Accounts of Chemical Research</i> , 2017 , 50, 1231-1239	24.3	41
38	Anisotropic displacement parameters from dispersion-corrected DFT methods and their experimental validation by temperature-dependent X-ray diffraction. <i>CrystEngComm</i> , 2015 , 17, 7414-7422	3.3	27
37	The Limited Predictive Power of the Pauling Rules. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7569-7575	16.4	26
36	Oxygen-Storage Materials BaYMn ₂ O ₅ from the Quantum-Chemical Point of View. <i>Chemistry of Materials</i> , 2012 , 24, 1910-1916	9.6	26
35	ECuN ₃ : the overlooked ground-state polymorph of copper azide with heterographene-like layers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1954-9	16.4	22
34	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of CaTaO ₂ N. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 152-160	3.8	20
33	Significant Lanthanoid Substitution Effect on the Redox Reactivity of the Oxygen-Storage Material BaYMn ₂ O ₅ . <i>Chemistry of Materials</i> , 2016 , 28, 4409-4414	9.6	19
32	Dimensionality of intermolecular interactions in layered crystals by electronic-structure theory and geometric analysis. <i>Inorganic Chemistry</i> , 2015 , 54, 956-62	5.1	18
31	Lattice thermal expansion and anisotropic displacements in β -sulfur from diffraction experiments and first-principles theory. <i>Journal of Chemical Physics</i> , 2016 , 145, 234512	3.9	17
30	The Limited Predictive Power of the Pauling Rules. <i>Angewandte Chemie</i> , 2020 , 132, 7639-7645	3.6	16
29	Intermolecular contacts in bromomalonic aldehyde: intuition, experiment, and theory. <i>CrystEngComm</i> , 2014 , 16, 135-138	3.3	16
28	Lattice thermal expansion and anisotropic displacements in urea, bromomalonic aldehyde, pentachloropyridine, and naphthalene. <i>Journal of Chemical Physics</i> , 2017 , 147, 074112	3.9	15
27	On the DFT ground state of crystalline bromine and iodine. <i>ChemPhysChem</i> , 2015 , 16, 728-32	3.2	14
26	Anisotropic thermal motion in transition-metal carbonyls from experiments and ab initio theory. <i>Dalton Transactions</i> , 2016 , 45, 13680-5	4.3	14
25	Tetrel Bonds in Infinite Molecular Chains by Electronic Structure Theory and Their Role for Crystal Stabilization. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1381-1387	2.8	13

24	Ammonothermal Synthesis, Crystal Structure, and Properties of the Ytterbium(II) and Ytterbium(III) Amides and the First Two Rare-Earth-Metal Guanidates, YbC(NH) ₃ and Yb(CN ₃ H ₄) ₃ . <i>Inorganic Chemistry</i> , 2016 , 55, 6161-8	5.1	13
23	Combining phonon accuracy with high transferability in Gaussian approximation potential models. <i>Journal of Chemical Physics</i> , 2020 , 153, 044104	3.9	13
22	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. <i>Materials Today Physics</i> , 2021 , 18, 100344	8	13
21	High-throughput computational discovery of In ₂ Mn ₂ O ₇ as a high Curie temperature ferromagnetic semiconductor for spintronics. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	12
20	Synthesis, Crystal Structure, Polymorphism, and Magnetism of Eu(CN ₃ H ₄) ₂ and First Evidence of EuC(NH) ₃ . <i>Inorganics</i> , 2017 , 5, 10	2.9	12
19	Chemist versus Machine: Traditional Knowledge versus Machine Learning Techniques. <i>Trends in Chemistry</i> , 2021 , 3, 86-95	14.8	10
18	Synthesis, structure, and properties of SrC(NH) ₃ , a nitrogen-based carbonate analogue with the trinacria motif. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12171-5	16.4	7
17	High-throughput computational search for high carrier lifetime, defect-tolerant solar absorbers. <i>Energy and Environmental Science</i> , 2021 , 14, 5057-5073	35.4	6
16	ECuN ₃ : die Bersehene Grundzustandsmodifikation des Kupferazids mit heterographenartigen Schichten. <i>Angewandte Chemie</i> , 2015 , 127, 1977-1982	3.6	5
15	Synthesis, Structure Determination and Electronic Structure of Magnesium Nitride Chloride, Mg ₂ NCl. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015 , 641, 266-269	1.3	5
14	ChemEnv: a fast and robust coordination environment identification tool. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 683-695	1.8	5
13	The many flavours of halogen bonds - message from experimental electron density and Raman spectroscopy. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 1190-1201	0.8	5
12	Considering the Role of Ion Transport in Diffusion-Dominated Thermal Conductivity. <i>Advanced Energy Materials</i> , 2020 , 10, 2200717	21.8	5
11	Synthese, Struktur und Eigenschaften von SrC(NH) ₃ , einem stickstoffbasierten Carbonatanalogon mit Trinacriamotiv. <i>Angewandte Chemie</i> , 2015 , 127, 12339-12343	3.6	4
10	Ferroelectricity and multiferroicity in anti-Ruddlesden-Popper structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
9	A new tool for validating theoretically derived anisotropic displacement parameters with experiment: directionality of prolate displacement ellipsoids. <i>CrystEngComm</i> , 2019 , 21, 6396-6404	3.3	3
8	First Full Structural Characterization of Chloro Formamidinium Salts. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018 , 644, 1485-1491	1.3	1
7	Das Rezept für schmalbandige Leuchtstoffe. <i>Nachrichten Aus Der Chemie</i> , 2020 , 68, 54-58	0.1	1

6	Die Materialsynthesemaschine. <i>Nachrichten Aus Der Chemie</i> , 2020 , 68, 66-69	0.1	1
5	Automation in DFT-based computational materials science. <i>Trends in Chemistry</i> , 2021 , 3, 697-699	14.8	0
4	Neue Materialien vorhersagen: Maschinelles Lernen als Werkzeug. <i>Nachrichten Aus Der Chemie</i> , 2020 , 68, 49-52	0.1	
3	Vorhersagen aus Hochdurchsatzstudien. <i>Nachrichten Aus Der Chemie</i> , 2020 , 68, 80-83	0.1	
2	Temperatur mit Licht messen. <i>Nachrichten Aus Der Chemie</i> , 2020 , 68, 68-73	0.1	
1	Ungewöhnliche Oxidationsstufen, (un)gewöhnliche Maßnahmen. <i>Nachrichten Aus Der Chemie</i> , 2021 , 69, 73-78	0.1	