Janine George

List of Publications by Year in Descending Order

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	Ferroelectricity and multiferroicity in anti-Ruddlesden-Popper structures. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
40	Ungewöhnliche Oxidationsstufen, (un)gewöhnliche Maßnahmen. *Nachrichten Aus Der Chemie*, **2021**, 69, 73-78	0.1	
39	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. *Materials Today Physics*, **2021**, 18, 100344	8	13
38	Chemist versus Machine: Traditional Knowledge versus Machine Learning Techniques. *Trends in Chemistry*, **2021**, 3, 86-95	14.8	10
37	Automation in DFT-based computational materials science. *Trends in Chemistry*, **2021**, 3, 697-699	14.8	0
36	High-throughput computational search for high carrier lifetime, defect-tolerant solar absorbers. *Energy and Environmental Science*, **2021**, 14, 5057-5073	35.4	6
35	LOBSTER: Local orbital projections, atomic charges, and chemical-bonding analysis from projector-augmented-wave-based density-functional theory. *Journal of Computational Chemistry*, **2020**, 41, 1931-1940	3.5	155
34	The Limited Predictive Power of the Pauling Rules. *Angewandte Chemie*, **2020**, 132, 7639-7645	3.6	16
33	The Limited Predictive Power of the Pauling Rules. *Angewandte Chemie - International Edition*, **2020**, 59, 7569-7575	16.4	26
32	ChemEnv: a fast and robust coordination environment identification tool. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 683-695	1.8	5
31	Neue Materialien vorhersagen: Maschinelles Lernen als Werkzeug. *Nachrichten Aus Der Chemie*, **2020**, 68, 49-52	0.1	
30	Vorhersagen aus Hochdurchsatzstudien. *Nachrichten Aus Der Chemie*, **2020**, 68, 80-83	0.1	
29	Temperatur mit Licht messen. *Nachrichten Aus Der Chemie*, **2020**, 68, 68-73	0.1	
28	Das Rezept für schmalbandige Leuchtstoffe. *Nachrichten Aus Der Chemie*, **2020**, 68, 54-58	0.1	1
27	Die Materialsynthesemaschine. *Nachrichten Aus Der Chemie*, **2020**, 68, 66-69	0.1	1
26	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of CaTaO2N. *Journal of Physical Chemistry C*, **2020**, 124, 152-160	3.8	20
25	Combining phonon accuracy with high transferability in Gaussian approximation potential models. *Journal of Chemical Physics*, **2020**, 153, 044104	3.9	13

24	High-throughput computational discovery of In2Mn2O7 as a high Curie temperature ferromagnetic semiconductor for spintronics. *Npj Computational Materials*, **2019**, 5,	10.9	12
23	The many flavours of halogen bonds - message from experimental electron density and Raman spectroscopy. *Acta Crystallographica Section C, Structural Chemistry*, **2019**, 75, 1190-1201	0.8	5
22	A new tool for validating theoretically derived anisotropic displacement parameters with experiment: directionality of prolate displacement ellipsoids. *CrystEngComm*, **2019**, 21, 6396-6404	3.3	3
21	First Full Structural Characterization of Chloro Formamidinium Salts. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2018**, 644, 1485-1491	1.3	1
20	Tetrel Bonds in Infinite Molecular Chains by Electronic Structure Theory and Their Role for Crystal Stabilization. *Journal of Physical Chemistry A*, **2017**, 121, 1381-1387	2.8	13
19	Plane-Wave Density Functional Theory Meets Molecular Crystals: Thermal Ellipsoids and Intermolecular Interactions. *Accounts of Chemical Research*, **2017**, 50, 1231-1239	24.3	41
18	Lattice thermal expansion and anisotropic displacements in urea, bromomalonic aldehyde, pentachloropyridine, and naphthalene. *Journal of Chemical Physics*, **2017**, 147, 074112	3.9	15
17	Synthesis, Crystal Structure, Polymorphism, and Magnetism of Eu(CN3H4)2 and First Evidence of EuC(NH)3. *Inorganics*, **2017**, 5, 10	2.9	12
16	Anisotropic thermal motion in transition-metal carbonyls from experiments and ab initio theory. *Dalton Transactions*, **2016**, 45, 13680-5	4.3	14
15	Ammonothermal Synthesis, Crystal Structure, and Properties of the Ytterbium(II) and Ytterbium(III) Amides and the First Two Rare-Earth-Metal Guanidinates, YbC(NH)3 and Yb(CN3H4)3. *Inorganic Chemistry*, **2016**, 55, 6161-8	5.1	13
14	Significant Lanthanoid Substitution Effect on the Redox Reactivity of the Oxygen-Storage Material BaYMn2O5+□*Chemistry of Materials*, **2016**, 28, 4409-4414	9.6	19
13	Lattice thermal expansion and anisotropic displacements in ?-sulfur from diffraction experiments and first-principles theory. *Journal of Chemical Physics*, **2016**, 145, 234512	3.9	17
12	On the DFT ground state of crystalline bromine and iodine. *ChemPhysChem*, **2015**, 16, 728-32	3.2	14
11	Anisotropic displacement parameters from dispersion-corrected DFT methods and their experimental validation by temperature-dependent X-ray diffraction. *CrystEngComm*, **2015**, 17, 7414-7422	3.3	27
10	Dimensionality of intermolecular interactions in layered crystals by electronic-structure theory and geometric analysis. *Inorganic Chemistry*, **2015**, 54, 956-62	5.1	18
9	Synthesis, structure, and properties of SrC(NH)3 , a nitrogen-based carbonate analogue with the trinacria motif. *Angewandte Chemie - International Edition*, **2015**, 54, 12171-5	16.4	7
8	Synthese, Struktur und Eigenschaften von SrC(NH)3, einem stickstoffbasierten Carbonatanalogon mit Trinacriamotiv. *Angewandte Chemie*, **2015**, 127, 12339-12343	3.6	4
7	□CuN3: die □bersehene Grundzustandsmodifikation des Kupferazids mit heterographenartigen Schichten. *Angewandte Chemie*, **2015**, 127, 1977-1982	3.6	5

6	CuN3: the overlooked ground-state polymorph of copper azide with heterographene-like layers. *Angewandte Chemie - International Edition*, **2015**, 54, 1954-9	16.4	22
5	Synthesis, Structure Determination and Electronic Structure of Magnesium Nitride Chloride, Mg2NCl. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2015**, 641, 266-269	1.3	5
4	Intermolecular contacts in bromomalonic aldehyde: intuition, experiment, and theory. *CrystEngComm*, **2014**, 16, 135-138	3.3	16
3	Cooperativity of halogen, chalcogen, and pnictogen bonds in infinite molecular chains by electronic structure theory. *Journal of Physical Chemistry A*, **2014**, 118, 3193-200	2.8	81
2	Oxygen-Storage Materials BaYMn2O5+: from the Quantum-Chemical Point of View. *Chemistry of Materials*, **2012**, 24, 1910-1916	9.6	26
1	Considering the Role of Ion Transport in Diffuson-Dominated Thermal Conductivity. *Advanced Energy Materials*,2200717	21.8	5