Julia Dshemuchadse

List of Publications by Year
in descending order

29 papers	1,012 citations	623734 14 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	1612 citing authors

#	Article	IF	Citations
1	Soft matter crystallographyâ€"Complex, diverse, and new crystal structures in condensed materials on the mesoscale. Journal of Applied Physics, 2022, 131, .	2.5	5
2	Multiscale hierarchical structures from a nanocluster mesophase. Nature Materials, 2022, 21, 518-525.	27.5	27
3	Moving beyond the constraints of chemistry via crystal structure discovery with isotropic multiwell pair potentials. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
4	Inverse design of compression-induced solid â€“ solid transitions in colloids. Molecular Simulation, 2020, 46, 1037-1044.	2.0	6
5	Computational self-assembly of colloidal crystals from Platonic polyhedral sphere clusters. Soft Matter, 2019, 15, 6288-6299.	2.7	9
6	Engineering entropy for the inverse design of colloidal crystals from hard shapes. Science Advances, 2019, 5, eaaw0514.	10.3	49
7	Influence of Softness on the Stability of Binary Colloidal Crystals. ACS Nano, 2019, 13, 13829-13842.	14.6	29
8	Shape-controlled crystallisation pathways in dense fluids of ccp-forming hard polyhedra. Molecular Physics, 2019, 117, 3819-3826.	1.7	4
9	Phase behavior and design rules for plastic colloidal crystals of hard polyhedra via consideration of directional entropic forces. Soft Matter, 2019, 15, 5380-5389.	2.7	11
10	Inverse design of simple pair potentials for the self-assembly of complex structures. Journal of Chemical Physics, 2018, 149, 204102.	3.0	30
11	Strain fields in repulsive colloidal crystals. Physical Review Materials, 2018, 2, .	2.4	11
12	Pressure-tunable photonic band gaps in an entropic colloidal crystal. Physical Review Materials, 2018, 2, .	2.4	16
13	Special Issue â€œComplex intermetallics â€“ structures and propertiesâ€• Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 485-486.	0.8	0
14	Self-assembly of a space-tessellating structure in the binary system of hard tetrahedra and octahedra. Soft Matter, 2016, 12, 7073-7078.	2.7	17
15	Clusters of polyhedra in spherical confinement. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E669-78.	7.1	68
16	Trinuclear Complexes of Nickel(II) and 4-Amino-1,2,4-triazole. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2344-2349.	1.2	3
17	Some Statistics on Intermetallic Compounds. Inorganic Chemistry, 2015, 54, 1120-1128.	4.0	38
18	More statistics on intermetallic compounds â€“ ternary phases. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 335-345.	0.1	32

#	Article	IF	Citations
19	More of the â€œFullercagesâ€• Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 693-700.	1.2	6
20	Tetrakis(4â€•aminoâ€•1,2,4â€•triazole)platinum(II) Salts: Syntheses, Crystal Structures, and Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 724-732.	1.2	7
21	Polynuclear Iron(II)â€“Aminotriazole Spincrossover Complexes (Polymers) In Solution. Inorganic Chemistry, 2014, 53, 3546-3557.	4.0	24
22	Gram-scale synthesis of two-dimensional polymer crystals and their structure analysis by X-ray diffraction. Nature Chemistry, 2014, 6, 779-784.	13.6	356
23	Real space crystallography of a complex metallic alloy: high-angle annular dark-field scanning transmission electron microscopy of o-Al₄(Cr,Fe). Journal of Applied Crystallography, 2014, 47, 1026-1031.	4.5	5
24	A new cluster-based cubic phase in the Alâ€“Cuâ€“Ir system. Intermetallics, 2013, 32, 337-343.	3.9	14
25	On the Symmetry and Composition of Complex Intermetallics. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	7
26	A new complex intermetallic phase in the system Alâ€“Cuâ€“Ta with familiar clusters and packing principles. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 238-248.	1.1	6
27	Polytypic superstructure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>R</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>PdSi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		