Xiaoguang Luo

List of Publications by Year
in descending order

28 papers	682 citations	567281 15 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	979 citing authors

#	Article	IF	Citations
1	Surface Magnetism in Pristine Î± Rhombohedral Boron and Intersurface Exchange Coupling Mechanism of Boron Icosahedra. Journal of Physical Chemistry Letters, 2021, 12, 6812-6817.	4.6	5
2	From Triazine to Heptazine: Origin of Graphitic Carbon Nitride as a Photocatalyst. ACS Omega, 2020, 5, 12557-12567.	3.5	61
3	Real-Time Evolution of the Electron Clouds of Transition Metal Ions: Possible Electron-Pairing Medium in Unconventional High-Temperature Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2711-2715.	1.8	0
4	Crystallization of High Silica RHO Zeolite with Self-Assembled Cs⁺-18-crown-6 Sandwich Complex. Crystal Growth and Design, 2019, 19, 3389-3396.	3.0	3
5	Stacking sequences of black phosphorous allotropes and the corresponding few-layer phosphorenes. Physical Chemistry Chemical Physics, 2018, 20, 10185-10192.	2.8	8
6	Physical realization of 2D spin liquid state by ab initio design and strain engineering in FeX₃. Journal of Physics Condensed Matter, 2018, 30, 325801.	1.8	4
7	Electronic structures and band alignments of monolayer metal trihalide semiconductors MX₃. Journal of Materials Chemistry C, 2017, 5, 9066-9071.	5.5	45
8	A class of monolayer metal halogenides MX2: Electronic structures and band alignments. Applied Physics Letters, 2016, 108, .	3.3	49
9	Crystal Structures and Electronic Properties of Single-Layer, Few-Layer, and Multilayer GeH. Journal of Physical Chemistry C, 2016, 120, 793-800.	3.1	18
10	The atomic structures of carbon nitride sheets for cathode oxygen reduction catalysis. Journal of Chemical Physics, 2013, 138, 164706.	3.0	19
11	Tuning the catalytic property of nitrogen-doped graphene for cathode oxygen reduction reaction. Physical Review B, 2012, 85, .	3.2	81
12	B-C-N Compounds with Mixed Hybridization of sp ² -Like and sp ³ -Like Bonds. Chinese Physics Letters, 2012, 29, 036104.	3.3	3
13	Two-Dimensional Superlattice: Modulation of Band Gaps in Graphene-Based Monolayer Carbon Superlattices. Journal of Physical Chemistry Letters, 2012, 3, 3373-3378.	4.6	60
14	Superhard B2C2N2 compounds from first-principles calculations. Journal of Applied Physics, 2011, 109, .	2.5	5
15	Effects of copper and oxygen vacancies on the ferromagnetism of Mn- and Co-doped Cu2O. Solid State Communications, 2011, 151, 1583-1587.	1.9	7
16	Compressive Strength of Diamond from First-Principles Calculation. Journal of Physical Chemistry C, 2010, 114, 17851-17853.	3.1	46
17	Prediction of graphitelike BC4N from first-principles calculations. Journal of Applied Physics, 2009, 105, .	2.5	8
18	Synthesis and oxidation behavior of boron-substituted carbon powders by hot filament chemical vapor deposition. Science in China Series D: Earth Sciences, 2008, 51, 1464-1469.	0.9	4

#	Article	IF	Citations
19	Ferromagnetism in polycrystalline Cr-doped ZnO films: Experiment and theory. Solid State Communications, 2008, 146, 420-424.	1.9	28
20	First-principles study of atomic oxygen adsorption on boron-substituted graphite. Surface Science, 2008, 602, 37-45.	1.9	22
21	Refined Crystal Structure and Mechanical Properties of Superhard BC₄N Crystal: First-Principles Calculations. Journal of Physical Chemistry C, 2008, 112, 9516-9519.	3.1	38
22	Effect of oxygen partial pressure on the ferromagnetism of Cr-doped TiO₂films. Journal Physics D: Applied Physics, 2008, 41, 015005.	2.8	18
23	First-principles study of wurtzite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	3.2	43
24	Body-centered superhard<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi></mml:mrow></mml:math>phases from first principles. Physical Review B, 2007, 76, .	3.2	32
25	Theoretical hardness of the cubic BC2N. Diamond and Related Materials, 2007, 16, 526-530.	3.9	36
26	Ground-state properties and hardness of high density BC6N phases originating from diamond structure. Journal of Applied Physics, 2007, 101, 083505.	2.5	15
27	Synthesis of Bâ€“Câ€“N nanocrystalline particle by mechanical alloying and spark plasma sintering. Journal of Materials Science, 2006, 41, 8352-8355.	3.7	12
28	Ab Initio Study of Structural and Electronic Properties of Hexagonal BC 2 N. Chinese Physics Letters, 2006, 23, 2175-2178.	3.3	12