

Xiaoguang Luo

List of Publications by Year in descending order

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28
papers

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567281

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28
times ranked

979
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Tuning the catalytic property of nitrogen-doped graphene for cathode oxygen reduction reaction. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 81 |
| 2 | From Triazine to Heptazine: Origin of Graphitic Carbon Nitride as a Photocatalyst. <i>ACS Omega</i> , 2020, 5, 12557-12567. | 3.5 | 61 |
| 3 | Two-Dimensional Superlattice: Modulation of Band Gaps in Graphene-Based Monolayer Carbon Superlattices. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3373-3378. | 4.6 | 60 |
| 4 | A class of monolayer metal halogenides MX ₂ : Electronic structures and band alignments. <i>Applied Physics Letters</i> , 2016, 108, . | 3.3 | 49 |
| 5 | Compressive Strength of Diamond from First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17851-17853. | 3.1 | 46 |
| 6 | Electronic structures and band alignments of monolayer metal trihalide semiconductors MX ₃ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 9066-9071. | 5.5 | 45 |
| 7 | First-principles study of wurtzite B_2C_N . <i>Physical Review B</i> , 2007, 76, . | 3.2 | 43 |
| 8 | Refined Crystal Structure and Mechanical Properties of Superhard BC ₄ N Crystal: First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9516-9519. | 3.1 | 38 |
| 9 | Theoretical hardness of the cubic BC ₂ N. <i>Diamond and Related Materials</i> , 2007, 16, 526-530. | 3.9 | 36 |
| 10 | Body-centered superhard BC ₂ N phases from first principles. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 32 |
| 11 | Ferromagnetism in polycrystalline Cr-doped ZnO films: Experiment and theory. <i>Solid State Communications</i> , 2008, 146, 420-424. | 1.9 | 28 |
| 12 | First-principles study of atomic oxygen adsorption on boron-substituted graphite. <i>Surface Science</i> , 2008, 602, 37-45. | 1.9 | 22 |
| 13 | The atomic structures of carbon nitride sheets for cathode oxygen reduction catalysis. <i>Journal of Chemical Physics</i> , 2013, 138, 164706. | 3.0 | 19 |
| 14 | Effect of oxygen partial pressure on the ferromagnetism of Cr-doped TiO ₂ films. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 015005. | 2.8 | 18 |
| 15 | Crystal Structures and Electronic Properties of Single-Layer, Few-Layer, and Multilayer GeH. <i>Journal of Physical Chemistry C</i> , 2016, 120, 793-800. | 3.1 | 18 |
| 16 | Ground-state properties and hardness of high density BC ₆ N phases originating from diamond structure. <i>Journal of Applied Physics</i> , 2007, 101, 083505. | 2.5 | 15 |
| 17 | Synthesis of B ¹⁵ N nanocrystalline particle by mechanical alloying and spark plasma sintering. <i>Journal of Materials Science</i> , 2006, 41, 8352-8355. | 3.7 | 12 |
| 18 | Ab Initio Study of Structural and Electronic Properties of Hexagonal BC ₂ N. <i>Chinese Physics Letters</i> , 2006, 23, 2175-2178. | 3.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Prediction of graphitelike BC ₄ N from first-principles calculations. Journal of Applied Physics, 2009, 105, . | 2.5 | 8 |
| 20 | Stacking sequences of black phosphorous allotropes and the corresponding few-layer phosphorenes. Physical Chemistry Chemical Physics, 2018, 20, 10185-10192. | 2.8 | 8 |
| 21 | Effects of copper and oxygen vacancies on the ferromagnetism of Mn- and Co-doped Cu ₂ O. Solid State Communications, 2011, 151, 1583-1587. | 1.9 | 7 |
| 22 | Superhard B ₂ C ₂ N ₂ compounds from first-principles calculations. Journal of Applied Physics, 2011, 109, . | 2.5 | 5 |
| 23 | Surface Magnetism in Pristine $\hat{\pm}$ Rhombohedral Boron and Intersurface Exchange Coupling Mechanism of Boron Icosahedra. Journal of Physical Chemistry Letters, 2021, 12, 6812-6817. | 4.6 | 5 |
| 24 | 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 |
| 25 | Physical realization of 2D spin liquid state by <i>ab initio</i> design and strain engineering in FeX ₃ . Journal of Physics Condensed Matter, 2018, 30, 325801. | 1.8 | 4 |
| 26 | B-C-N Compounds with Mixed Hybridization of <i>sp</i> ² -Like and <i>sp</i> ³ -Like Bonds. Chinese Physics Letters, 2012, 29, 036104. | 3.3 | 3 |
| 27 | 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 |
| 28 | 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 |