

Zhisheng Zhao

List of Publications by Year in Descending Order

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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.

142
papers

4,274
citations

25
h-index

62
g-index

151
ext. papers

5,229
ext. citations

7.2
avg. IF

5.38
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 142 | Hard and tough ultrafine-grained B4C-cBN composites prepared by high-pressure sintering. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 2015-2020 | 6 | 0 |
| 141 | Superconductivity in graphite-diamond hybrid. <i>Materials Today Physics</i> , 2022 , 23, 100630 | 8 | 2 |
| 140 | Discovery of carbon-based strongest and hardest amorphous material.. <i>National Science Review</i> , 2022 , 9, nwab140 | 10.8 | 16 |
| 139 | Nanocrystalline high-entropy carbide ceramics with improved mechanical properties. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 606 | 3.8 | 2 |
| 138 | Extraordinary high-temperature mechanical properties in binder-free nanopolycrystalline WC ceramic. <i>Journal of Materials Science and Technology</i> , 2022 , 97, 169-175 | 9.1 | 2 |
| 137 | Novel Boron Nitride Polymorphs with Graphite-Diamond Hybrid Structure. <i>Chinese Physics Letters</i> , 2022 , 39, 036301 | 1.8 | 0 |
| 136 | Ultrasensitive biochemical sensors based on controllably grown films of high-density edge-rich multilayer WS ₂ islands. <i>Sensors and Actuators B: Chemical</i> , 2021 , 131081 | 8.5 | 0 |
| 135 | Extreme mechanical anisotropy in diamond with preferentially oriented nanotwin bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 1 |
| 134 | Proximity Enhanced Hydrogen Evolution Reactivity of Substitutional Doped Monolayer WS. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19406-19413 | 9.5 | 6 |
| 133 | Grain-boundary-rich polycrystalline monolayer WS film for attomolar-level Hg sensors. <i>Nature Communications</i> , 2021 , 12, 3870 | 17.4 | 11 |
| 132 | Rapid fabrication of hierarchical porous SiC/C hybrid structure: toward high-performance capacitive energy storage with ultrahigh cyclability. <i>Journal of Materials Science</i> , 2021 , 56, 16068-16081 | 4.3 | 1 |
| 131 | The rise of plastic deformation in boron nitride ceramics. <i>Science China Materials</i> , 2021 , 64, 46-51 | 7.1 | 3 |
| 130 | Heat-treated glassy carbon under pressure exhibiting superior hardness, strength and elasticity. <i>Journal of Materiomics</i> , 2021 , 7, 177-184 | 6.7 | 4 |
| 129 | Strong amorphous carbon prepared by spark-plasma sintering C60. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1655-1660 | 3.8 | 1 |
| 128 | Porous bismuth antimony telluride alloys with excellent thermoelectric and mechanical properties. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4990-4999 | 13 | 8 |
| 127 | Design of a Series of Metallic BN with Tunable Mechanical Properties. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1979-1984 | 6.4 | 0 |
| 126 | Design of a Class of New sp ² & sp ³ Carbons Constructed by Graphite and Diamond Building Blocks. <i>Chinese Physics Letters</i> , 2021 , 38, 028102 | 1.8 | 6 |

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|-----|---|------|----|
| 125 | Preparation of dense B4C ceramics by spark plasma sintering of high-purity nanoparticles. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3929-3936 | 6 | 8 |
| 124 | Design and theoretical study of novel multifunctional 3D-BC2N polymorphs. <i>Chemical Physics Letters</i> , 2021 , 774, 138610 | 2.5 | 1 |
| 123 | Columbite-rich multiphase TiO2 nanoceramic with superior mechanical and dielectric properties. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4951-4957 | 6 | 0 |
| 122 | Strengthening effects of penetrating twin boundary and phase boundary in polycrystalline diamond. <i>Diamond and Related Materials</i> , 2021 , 117, 108436 | 3.5 | 2 |
| 121 | Narrow-gap, semiconducting, superhard amorphous carbon with high toughness, derived from C60 fullerene. <i>Cell Reports Physical Science</i> , 2021 , 2, 100575 | 6.1 | 7 |
| 120 | In Situ Grown Ultrafine RuO Nanoparticles on GeP Nanosheets as the Electrode Material for Flexible Planar Micro-Supercapacitors with High Specific Capacitance and Cyclability. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47560-47571 | 9.5 | 1 |
| 119 | High-sensitivity and versatile plasmonic biosensor based on grain boundaries in polycrystalline 1L WS films. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113596 | 11.8 | 2 |
| 118 | Structural diversity, large interlayer spacing and switchable electronic properties of graphitic systems. <i>Journal of Materials Science</i> , 2021 , 56, 5509-5519 | 4.3 | 1 |
| 117 | Structural Determination of a Graphite/Hexagonal Boron Nitride Superlattice Observed in the Experiment. <i>Inorganic Chemistry</i> , 2021 , 60, 2598-2603 | 5.1 | 1 |
| 116 | Superhard and superconductive nondiamond-like BC structure. <i>Diamond and Related Materials</i> , 2020 , 110, 108142 | 3.5 | |
| 115 | Pentadiamond-like Metallic Hard Carbon Nitride. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24978-24983 | 3.8 | 9 |
| 114 | Ab initio study of pressure-induced metallization and superconductivity in orthorhombic LiBH2 phase under ultra-high pressure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126525 | 2.3 | 4 |
| 113 | Application of hard ceramic materials B4C in energy storage: Design B4C@C core-shell nanoparticles as electrodes for flexible all-solid-state micro-supercapacitors with ultrahigh cyclability. <i>Nano Energy</i> , 2020 , 75, 104947 | 17.1 | 21 |
| 112 | Mechanochemically assisted synthesis of titanium carbonitride from metal and organic precursor. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6112-6119 | 3.8 | 0 |
| 111 | Universal Phase Transitions of AlB-Type Transition-Metal Diborides. <i>ACS Omega</i> , 2020 , 5, 4620-4625 | 3.9 | 5 |
| 110 | Synthesis of twin-structured nanodiamond particles. <i>AIP Advances</i> , 2020 , 10, 015240 | 1.5 | 3 |
| 109 | Mechanical polishing of ultrahard nanotwinned diamond via transition into hard sp2-sp3 amorphous carbon. <i>Carbon</i> , 2020 , 161, 1-6 | 10.4 | 15 |
| 108 | Influence of van der Waals epitaxy on phase transformation behaviors in 2D heterostructure. <i>Applied Physics Letters</i> , 2020 , 116, 021602 | 3.4 | 4 |

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|-----|---|------|----|
| 107 | Potential high-T superconductivity in ZrB ₂ polymorph under pressure. <i>Computational Materials Science</i> , 2020 , 176, 109517 | 3.2 | 2 |
| 106 | Superhard conductive orthorhombic carbon polymorphs. <i>Carbon</i> , 2020 , 158, 546-552 | 10.4 | 16 |
| 105 | Three metallic BN polymorphs: 1D multi-threaded conduction in a 3D network. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 489-496 | 3.6 | 3 |
| 104 | High-Pressure Synthesis of cBN Nanoparticles with High-Density Nanotwin Substructures. <i>ACS Omega</i> , 2020 , 5, 650-654 | 3.9 | 1 |
| 103 | Restacked melon as highly-efficient photocatalyst. <i>Nano Energy</i> , 2020 , 77, 105124 | 17.1 | 2 |
| 102 | Superhard sp-sp hybridized BCN with 2D metallicity. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22918-22922 | 3.2 | 2 |
| 101 | High-Performance Broadband Photodetectors of Heterogeneous 2D Inorganic Molecular Sb ₂ O ₃ /Monolayer MoS ₂ Crystals Grown via Chemical Vapor Deposition. <i>Advanced Optical Materials</i> , 2020 , 8, 2000168 | 8.1 | 4 |
| 100 | Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealing-Created Monolayer WS ₂ Bubbles. <i>Advanced Optical Materials</i> , 2019 , 7, 1801373 | 8.1 | 14 |
| 99 | Effect of layer and stacking sequence in simultaneously grown 2H and 3R WS atomic layers. <i>Nanotechnology</i> , 2019 , 30, 345203 | 3.4 | 7 |
| 98 | In-Situ Observation of the Formation of Fibrous Sulfur under High Pressure. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14696-14700 | 3.8 | 4 |
| 97 | Electronic structure and superconductivity in hexagonal Li ₃ B ₂ and Li ₂ B ₂ H phases under pressure. <i>Journal of Applied Physics</i> , 2019 , 125, 223902 | 2.5 | |
| 96 | One-Step Growth of Spatially Graded MoW S Monolayers with a Wide Span in Composition (from x = 0 to 1) at a Large Scale. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20979-20986 | 9.5 | 7 |
| 95 | High-pressure phases of boron arsenide with potential high thermal conductivity. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 11 |
| 94 | First-principles studies of superhard BC ₈ N structures. <i>Journal of Applied Physics</i> , 2019 , 125, 175108 | 2.5 | 7 |
| 93 | Direct large-scale fabrication of C-encapsulated B ₄ C nanoparticles with tunable dielectric properties as excellent microwave absorbers. <i>Carbon</i> , 2019 , 148, 504-511 | 10.4 | 16 |
| 92 | Accelerated Degradation of CrCl ₃ Nanoflakes Induced by Metal Electrodes: Implications for Remediation in Nanodevice Fabrication. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1597-1603 | 5.6 | 7 |
| 91 | Potential high-T _c superconductivity in CaYH ₁₂ under pressure. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 53 |
| 90 | Small onion-like BN leads to ultrafine-twinned cubic BN. <i>Science China Materials</i> , 2019 , 62, 1169-1176 | 7.1 | 9 |

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| 89 | Mechanical properties of boron arsenide single crystal. <i>Applied Physics Letters</i> , 2019 , 114, 131903 | 3.4 | 15 |
| 88 | Modifying Carbon Nitride through Extreme Phosphorus Substitution 2019 , 1, 14-19 | | 7 |
| 87 | Layered porous materials indium triphosphide InP ₃ for high-performance flexible all-solid-state supercapacitors. <i>Journal of Power Sources</i> , 2019 , 438, 227010 | 8.9 | 10 |
| 86 | Tribological properties of oleylamine-modified nickel nanoparticles as lubricating oil additive. <i>Materials Research Express</i> , 2019 , 6, 105037 | 1.7 | 3 |
| 85 | Lateral Bilayer MoS ₂ /WS ₂ Heterostructure Photodetectors with High Responsivity and Detectivity. <i>Advanced Optical Materials</i> , 2019 , 7, 1900815 | 8.1 | 39 |
| 84 | Discovery of superhard materials via CALYPSO methodology. <i>Chinese Physics B</i> , 2019 , 28, 106104 | 1.2 | 9 |
| 83 | First-principles study of crystal structures and superconductivity of ternary YSH ₆ and LaSH ₆ at high pressures. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 16 |
| 82 | Continuous strengthening in nanotwinned diamond. <i>Npj Computational Materials</i> , 2019 , 5, | 10.9 | 17 |
| 81 | Atomically Resolving Polymorphs and Crystal Structures of In ₂ Se ₃ . <i>Chemistry of Materials</i> , 2019 , 31, 101436-101449 | 4.6 | 14 |
| 80 | One-step synthetic route and sintering for carbon-coated B ₄ C nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 263-269 | 5.7 | 10 |
| 79 | Prediction of Li ₂ B novel phases and superconductivity under varying pressures. <i>Computational Materials Science</i> , 2019 , 158, 255-259 | 3.2 | 5 |
| 78 | Enhanced thermoelectric performance of high pressure synthesized Sb-doped Mg ₂ Si. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 1148-1152 | 5.7 | 13 |
| 77 | Grain wall boundaries in centimeter-scale continuous monolayer WS film grown by chemical vapor deposition. <i>Nanotechnology</i> , 2018 , 29, 255705 | 3.4 | 8 |
| 76 | Low-energy 3D sp carbons with versatile properties beyond graphite and graphene. <i>Dalton Transactions</i> , 2018 , 47, 6233-6239 | 4.3 | 6 |
| 75 | Novel carbon polymorphs with cumulative double bonds in three-dimensional sp-sp hybrid framework. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15022-15029 | 3.6 | 6 |
| 74 | 3D hybrid carbon composed of multigraphene bridged by carbon chains. <i>AIP Advances</i> , 2018 , 8, 015019 | 1.5 | |
| 73 | Enhanced Stability of Black Phosphorus Field-Effect Transistors via Hydrogen Treatment. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700455 | 6.4 | 15 |
| 72 | Enhanced thermoelectric performance of Na-doped PbTe synthesized under high pressure. <i>Science China Materials</i> , 2018 , 61, 1218-1224 | 7.1 | 20 |

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|----|---|------|----|
| 71 | First principles studies of superhard BC ₆ N phases with unexpected 1D metallicity. <i>Computational Materials Science</i> , 2018 , 148, 157-164 | 3.2 | 9 |
| 70 | Predicting the ground-state structure of sodium boride. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 16 |
| 69 | Enhanced thermoelectric performance of bismuth-doped magnesium silicide synthesized under high pressure. <i>Journal of Materials Science</i> , 2018 , 53, 9091-9098 | 4.3 | 9 |
| 68 | Two-dimensional boron on Pb (1 1 0) surface. <i>FlatChem</i> , 2018 , 7, 34-41 | 5.1 | 5 |
| 67 | Hard three-dimensional BN framework with one-dimensional metallicity. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 364-368 | 5.7 | 19 |
| 66 | Investigation on the Stability of Derivative Melam from Melamine Pyrolysis under High Pressure. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 10 |
| 65 | Mechanically ductile 3D sp ² sp ³ 2 microporous carbon. <i>Journal of Materials Science</i> , 2018 , 53, 4316-4322 | 4.3 | 10 |
| 64 | Multithreaded conductive carbon: 1D conduction in 3D carbon. <i>Carbon</i> , 2017 , 115, 584-588 | 10.4 | 13 |
| 63 | Properties of the exotic metastable ST12 germanium allotrope. <i>Nature Communications</i> , 2017 , 8, 13909 | 17.4 | 27 |
| 62 | Role of plastic deformation in tailoring ultrafine microstructure in nanotwinned diamond for enhanced hardness. <i>Science China Materials</i> , 2017 , 60, 178-185 | 7.1 | 18 |
| 61 | Superhard three-dimensional B ₃ N ₄ with two-dimensional metallicity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5897-5901 | 7.1 | 14 |
| 60 | New hexagonal boron nitride polytypes with triple-layer periodicity. <i>Journal of Applied Physics</i> , 2017 , 121, 165102 | 2.5 | 10 |
| 59 | Pressure-induced boron nitride nanotube derivatives: 3D metastable allotropes. <i>Journal of Applied Physics</i> , 2017 , 121, 165106 | 2.5 | 14 |
| 58 | Strengthening mechanism of BZr. <i>Computational Materials Science</i> , 2017 , 135, 134-140 | 3.2 | 4 |
| 57 | Compressed glassy carbon: An ultrastrong and elastic interpenetrating graphene network. <i>Science Advances</i> , 2017 , 3, e1603213 | 14.3 | 77 |
| 56 | Superhard sp ² -sp ³ hybridized BC ₂ N: A 3D crystal with 1D and 2D alternate metallicity. <i>Journal of Applied Physics</i> , 2017 , 121, 225103 | 2.5 | 11 |
| 55 | Metastable phases, phase transformation and properties of ALAs based on first-principle study. <i>Computational Materials Science</i> , 2017 , 128, 337-342 | 3.2 | 17 |
| 54 | A superhard sp ³ microporous carbon with direct bandgap. <i>Chemical Physics Letters</i> , 2017 , 689, 68-73 | 2.5 | 29 |

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|----|--|------|-----|
| 53 | Pressure-Induced Polymerization and Disproportionation of LiC Accompanied with Irreversible Conductivity Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4241-4245 | 6.4 | 11 |
| 52 | Strain Release Induced Novel Fluorescence Variation in CVD-Grown Monolayer WS Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34071-34077 | 9.5 | 13 |
| 51 | Strengthening in high-pressure quenched Zr. <i>High Pressure Research</i> , 2017 , 37, 278-286 | 1.6 | 5 |
| 50 | Flexible Black-Phosphorus Nanoflake/Carbon Nanotube Composite Paper for High-Performance All-Solid-State Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44478-44484 | 9.5 | 69 |
| 49 | Preparation of pure β -phase titanium alloys with low moduli via high pressure solution treatment. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 45-51 | 5.7 | 12 |
| 48 | Superhard orthorhombic phase of B ₂ CO compound. <i>Diamond and Related Materials</i> , 2017 , 73, 87-92 | 3.5 | 13 |
| 47 | Recent Advances in Superhard Materials. <i>Annual Review of Materials Research</i> , 2016 , 46, 383-406 | 12.8 | 80 |
| 46 | Anomalous melting behavior of polycrystalline bismuth quenched at high temperature and high pressure. <i>Materials Letters</i> , 2016 , 168, 36-39 | 3.3 | 2 |
| 45 | Flexible All-Solid-State Supercapacitors based on Liquid-Exfoliated Black-Phosphorus Nanoflakes. <i>Advanced Materials</i> , 2016 , 28, 3194-201 | 24 | 249 |
| 44 | Novel high-pressure phases of AlP from first principles. <i>Journal of Applied Physics</i> , 2016 , 119, 185101 | 2.5 | 10 |
| 43 | Superhard sp ² /sp ³ hybrid carbon allotropes with tunable electronic properties. <i>AIP Advances</i> , 2016 , 6, 055020 | 1.5 | 17 |
| 42 | Interpenetrating graphene networks: Three-dimensional node-line semimetals with massive negative linear compressibilities. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 13 |
| 41 | Coexistence of multiple metastable polytypes in rhombohedral bismuth. <i>Scientific Reports</i> , 2016 , 6, 203379 | 4.9 | 12 |
| 40 | Novel high-pressure phases of AlN: A first-principles study. <i>Computational Materials Science</i> , 2016 , 117, 496-501 | 3.2 | 23 |
| 39 | Superhard superstrong carbon clathrate. <i>Carbon</i> , 2016 , 105, 151-155 | 10.4 | 23 |
| 38 | Te-Doped Black Phosphorus Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 9408-9415 | 24 | 195 |
| 37 | Si ₁₀ : A sp ³ Silicon Allotrope with Spirally Connected Si ₅ Tetrahedrons. <i>Chemistry of Materials</i> , 2016 , 28, 6441-6445 | 9.6 | 14 |
| 36 | Deterministic Polarization Entanglement Purification of Cluster State in Multiple Degrees of Freedom. <i>International Journal of Theoretical Physics</i> , 2015 , 54, 1184-1192 | 1.1 | |

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|----|---|------|-----|
| 35 | Is orthorhombic iron tetraboride superhard?. <i>Journal of Materiomics</i> , 2015 , 1, 45-51 | 6.7 | 23 |
| 34 | Nanoarchitected materials composed of fullerene-like spheroids and disordered graphene layers with tunable mechanical properties. <i>Nature Communications</i> , 2015 , 6, 6212 | 17.4 | 43 |
| 33 | Carbon coated face-centered cubic Ru-C nanoalloys. <i>Nanoscale</i> , 2014 , 6, 10370-6 | 7.7 | 16 |
| 32 | Novel three-dimensional boron nitride allotropes from compressed nanotube bundles. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7022 | 7.1 | 17 |
| 31 | On implementing nondestructive triplet Toffoli gate with entanglement swapping operations via the GHZ state analysis. <i>Quantum Information Processing</i> , 2014 , 13, 2039-2047 | 1.6 | 5 |
| 30 | Direct band gap silicon allotropes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9826-9 | 16.4 | 120 |
| 29 | Superhard and high-strength yne-diamond semimetals. <i>Diamond and Related Materials</i> , 2014 , 46, 15-20 | 3.5 | 14 |
| 28 | Nanotwinned diamond with unprecedented hardness and stability. <i>Nature</i> , 2014 , 510, 250-3 | 50.4 | 440 |
| 27 | An ab initio study on the transition paths from graphite to diamond under pressure. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 145402 | 1.8 | 13 |
| 26 | Compressed carbon nanotubes: a family of new multifunctional carbon allotropes. <i>Scientific Reports</i> , 2013 , 3, 1331 | 4.9 | 73 |
| 25 | A novel layer-structured PtN ₂ : First-principles calculations. <i>Journal of Superhard Materials</i> , 2013 , 35, 339-349 | 3.49 | 2 |
| 24 | Ultrahard nanotwinned cubic boron nitride. <i>Nature</i> , 2013 , 493, 385-8 | 50.4 | 519 |
| 23 | Tian et al. reply. <i>Nature</i> , 2013 , 502, E2-3 | 50.4 | 10 |
| 22 | Microscopic theory of hardness and design of novel superhard crystals. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012 , 33, 93-106 | 4.1 | 563 |
| 21 | Exotic Cubic Carbon Allotropes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24233-24238 | 3.8 | 48 |
| 20 | High-pressure behaviors of carbon nanotubes. <i>Journal of Superhard Materials</i> , 2012 , 34, 371-385 | 0.9 | 22 |
| 19 | Metastable C-centered orthorhombic Si ₈ and Ge ₈ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 405803 | 3.8 | 4 |
| 18 | First-principles study of O-BN: A sp ³ -bonding boron nitride allotrope. <i>Journal of Applied Physics</i> , 2012 , 112, 053518 | 2.5 | 44 |

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|----|--|------|-----|
| 17 | Superhard F-carbon predicted by ab initio particle-swarm optimization methodology. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 165504 | 1.8 | 39 |
| 16 | Tetragonal allotrope of group 14 elements. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12362-516.4 | 5.6 | 146 |
| 15 | POLARIZATION ENTANGLEMENT CONCENTRATIONS WITH LESS-HYPERENTANGLED PHOTON PAIRS IN MULTIPLE DEGREES OF FREEDOM. <i>International Journal of Quantum Information</i> , 2012 , 10, 1250075 | 0.8 | 2 |
| 14 | High-pressure phases of NaAlH ₄ from first principles. <i>Applied Physics Letters</i> , 2012 , 100, 061905 | 3.4 | 8 |
| 13 | Prediction of a superconductive superhard material: Diamond-like BC7. <i>Journal of Applied Physics</i> , 2011 , 110, 013501 | 2.5 | 20 |
| 12 | Three dimensional carbon-nanotube polymers. <i>ACS Nano</i> , 2011 , 5, 7226-34 | 16.7 | 94 |
| 11 | Novel superhard carbon: C-centered orthorhombic C8. <i>Physical Review Letters</i> , 2011 , 107, 215502 | 7.4 | 198 |
| 10 | Universal phase transitions of B1-structured stoichiometric transition metal carbides. <i>Inorganic Chemistry</i> , 2011 , 50, 9266-72 | 5.1 | 11 |
| 9 | Superconducting ultraincompressible hard cubic Re ₄ C. <i>Computational Materials Science</i> , 2011 , 50, 1592-1596 | 3.2 | 12 |
| 8 | Properties of CaB ₆ single crystals synthesized under high pressure and temperature. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 1791-1795 | 3.6 | 6 |
| 7 | Novel High-Pressure Phase of RhB: First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19910-19915 | 3.8 | 16 |
| 6 | Semiconducting Superhard Ruthenium Monocarbide. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9961-9968 | 5.4 | 36 |
| 5 | Prediction of a Three-Dimensional Conductive Superhard Material: Diamond-like BC2. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22688-22690 | 3.8 | 31 |
| 4 | Bulk Re ₂ C: Crystal Structure, Hardness, and Ultra-incompressibility. <i>Crystal Growth and Design</i> , 2010 , 10, 5024-5026 | 3.5 | 40 |
| 3 | Prediction of a conducting hard ductile cubic IrC. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 230-232 | 2.5 | 7 |
| 2 | Controllable growth of multilayered XSe ₂ (X=W and Mo) for nonlinear optical and optoelectronic applications. <i>2D Materials</i> , | 5.9 | 1 |
| 1 | Heterogeneous Diamond-cBN Composites with Superb Toughness and Hardness. <i>Nano Letters</i> , | 11.5 | 0 |