List of Publications by Year in descending order

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|          |                | 36203        | 26548          |
|----------|----------------|--------------|----------------|
| 372      | 14,779         | 51           | 107            |
| papers   | citations      | h-index      | g-index        |
|          |                |              |                |
|          |                |              |                |
|          |                |              |                |
| 377      | 377            | 377          | 13746          |
| all docs | docs citations | times ranked | citing authors |
|          |                |              |                |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Unique Lead Adsorption Behavior of Activated Hydroxyl Group in Two-Dimensional Titanium Carbide.<br>Journal of the American Chemical Society, 2014, 136, 4113-4116.  | 6.6  | 1,068     |
| 2  | Microscopic theory of hardness and design of novel superhard crystals. International Journal of<br>Refractory Metals and Hard Materials, 2012, 33, 93-106.   | 1.7  | 900       |
| 3  | Hardness of Covalent Crystals. Physical Review Letters, 2003, 91, 015502.  | 2.9  | 835       |
| 4  | Ultrahard nanotwinned cubic boron nitride. Nature, 2013, 493, 385-388.   | 13.7 | 662       |
| 5  | Nanotwinned diamond with unprecedented hardness and stability. Nature, 2014, 510, 250-253.   | 13.7 | 611       |
| 6  | Semimetallic Two-Dimensional Boron Allotrope with Massless Dirac Fermions. Physical Review Letters, 2014, 112, .   | 2.9  | 497       |
| 7  | Ab initioinvestigations of optical properties of the high-pressure phases of ZnO. Physical Review B, 2005, 71, .   | 1.1  | 363       |
| 8  | Flexible Allâ€Solidâ€State Supercapacitors based on Liquidâ€Exfoliated Blackâ€Phosphorus Nanoflakes.<br>Advanced Materials, 2016, 28, 3194-3201.   | 11.1 | 290       |
| 9  | Teâ€Doped Black Phosphorus Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 9408-9415.   | 11.1 | 241       |
| 10 | Peanut shell derived hard carbon as ultralong cycling anodes for lithium and sodium batteries.<br>Electrochimica Acta, 2015, 176, 533-541.   | 2.6  | 236       |
| 11 | Largeâ€Scale Synthesis of Nitrogenâ€Rich Carbon Nitride Microfibers by Using Graphitic Carbon Nitride as<br>Precursor. Advanced Materials, 2008, 20, 1777-1781.  | 11.1 | 230       |
| 12 | Novel Superhard Carbon: C-Centered Orthorhombic <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:msub><mml:mi<br>mathvariant="normal"&gt;C<mml:mn>8</mml:mn></mml:mi<br></mml:msub>. Physical Review<br/>Letters, 2011, 107, 215502.</mml:math<br> | 2.9  | 225       |
| 13 | Ionicities of Boron-Boron Bonds inB12Icosahedra. Physical Review Letters, 2005, 94, 015504.  | 2.9  | 207       |
| 14 | Tetragonal Allotrope of Group 14 Elements. Journal of the American Chemical Society, 2012, 134, 12362-12365.   | 6.6  | 170       |
| 15 | Hardness of covalent compounds: Roles of metallic component and d valence electrons. Journal of<br>Applied Physics, 2008, 104, .   | 1.1  | 166       |
| 16 | Liquidâ€Exfoliated Black Phosphorous Nanosheet Thin Films for Flexible Resistive Random Access<br>Memory Applications. Advanced Functional Materials, 2016, 26, 2016-2024.   | 7.8  | 161       |
| 17 | Hierarchically structured diamond composite with exceptional toughness. Nature, 2020, 582, 370-374.  | 13.7 | 141       |
| 18 | Turbostratic carbon nitride prepared by pyrolysis of melamine. Journal of Materials Science, 2005, 40, 2645-2647.  | 1.7  | 130       |

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|----|--|-----|-----------|
| 19 | <i>Ab initio</i> study of the formation of transparent carbon under pressure. Physical Review B, 2010, 82, .   | 1.1 | 119       |
| 20 | Recent Advances in Superhard Materials. Annual Review of Materials Research, 2016, 46, 383-406.  | 4.3 | 119       |
| 21 | First-principles study of electronic structure and optical properties of heterodiamondBC2N. Physical Review B, 2006, 73, .   | 1.1 | 113       |
| 22 | Three Dimensional Carbon-Nanotube Polymers. ACS Nano, 2011, 5, 7226-7234.  | 7.3 | 110       |
| 23 | Compressed glassy carbon: An ultrastrong and elastic interpenetrating graphene network. Science<br>Advances, 2017, 3, e1603213.  | 4.7 | 110       |
| 24 | Potential high- <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>T</mml:mi> <mml:mi>c</mml:mi><br/>superconductivity in <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>CaYH</mml:mi> <mml:mn>12<td>1.1</td><td>109</td></mml:mn></mml:msub></mml:math<br></mml:msub></mml:math<br> | 1.1 | 109       |
| 25 | under pressure. Physical Review B, 2019, 99, .<br>Temperature dependent elastic constants and ultimate strength of graphene and graphyne. Journal of<br>Chemical Physics, 2012, 137, 194901.   | 1.2 | 94        |
| 26 | Flexible Black-Phosphorus Nanoflake/Carbon Nanotube Composite Paper for High-Performance<br>All-Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 44478-44484.   | 4.0 | 89        |
| 27 | Calorimetric versus kinetic glass transitions in viscous monohydroxy alcohols. Journal of Chemical<br>Physics, 2008, 128, 084503.  | 1.2 | 80        |
| 28 | Compressed carbon nanotubes: A family of new multifunctional carbon allotropes. Scientific Reports, 2013, 3, 1331.   | 1.6 | 80        |
| 29 | Optical properties of heterodiamond B2CN using first-principles calculations. Applied Physics Letters, 2004, 84, 4544-4546.  | 1.5 | 78        |
| 30 | Body-centered tetragonal B2N2: a novel sp3 bonding boron nitride polymorph. Physical Chemistry<br>Chemical Physics, 2011, 13, 14565.   | 1.3 | 77        |
| 31 | First-principles studies of structural and electronic properties of hexagonalBC5. Physical Review B, 2006, 73, .   | 1.1 | 75        |
| 32 | High-pressure synthesis of phonon-glass electron-crystal featured thermoelectric LixCo4Sb12. Acta<br>Materialia, 2012, 60, 1246-1251.  | 3.8 | 73        |
| 33 | Approaching diamond's theoretical elasticity and strength limits. Nature Communications, 2019, 10, 5533.   | 5.8 | 73        |
| 34 | Enhanced thermoelectric figure of merit in nanocrystalline Bi2Te3 bulk. Journal of Applied Physics, 2009, 105, .   | 1.1 | 71        |
| 35 | Variable cell nudged elastic band method for studying solid–solid structural phase transitions.<br>Computer Physics Communications, 2013, 184, 2111-2118.  | 3.0 | 71        |
| 36 | Atomically Resolving Polymorphs and Crystal Structures of In <sub>2</sub> Se <sub>3</sub> .<br>Chemistry of Materials, 2019, 31, 10143-10149.  | 3.2 | 71        |

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|----|---|-----------|-----------|
| 37 | Peculiar ZnO nanopushpins and nanotubes synthesized via simple thermal evaporation. Applied Physics<br>Letters, 2005, 87, 123111.   | 1.5       | 69        |
| 38 | Crystal structure and physical properties ofOsN2andPtN2in the marcasite phase. Physical Review B, 2007, 75, .   | 1.1       | 69        |
| 39 | Predicting hardness of dense C3N4 polymorphs. Applied Physics Letters, 2006, 88, 101906.  | 1.5       | 67        |
| 40 | Superhard and superconducting structures of BC5. Journal of Applied Physics, 2010, 108, .   | 1.1       | 66        |
| 41 | Prediction of high- <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>T</mml:mi> <mml:mi>c</mml:mi> &lt;<br/>superconductivity in ternary lanthanum borohydrides. Physical Review B, 2021, 104, .</mml:msub></mml:math<br>   | /munl:msu | bøø/mml:m |
| 42 | Lateral Bilayer MoS <sub>2</sub> –WS <sub>2</sub> Heterostructure Photodetectors with High<br>Responsivity and Detectivity. Advanced Optical Materials, 2019, 7, 1900815.   | 3.6       | 65        |
| 43 | Most likely phase of superhard <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:msub><mml:mi>BC</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi<br>mathvariant="normal"&gt;N</mml:mi<br></mml:mrow></mml:math> by <i>ab initio</i> calculations. Physical<br>Review B. 2007. 76. | 1.1       | 62        |
| 44 | Two-Dimensional Superlattice: Modulation of Band Gaps in Graphene-Based Monolayer Carbon<br>Superlattices. Journal of Physical Chemistry Letters, 2012, 3, 3373-3378.   | 2.1       | 60        |
| 45 | Superhard materials: recent research progress and prospects. Science China Materials, 2015, 58, 132-142.  | 3.5       | 59        |
| 46 | Mechanical properties of nanocrystalline TiC–ZrC solid solutions fabricated by spark plasma sintering. Ceramics International, 2014, 40, 10517-10522.   | 2.3       | 57        |
| 47 | Regulating Polymerization in Graphitic Carbon Nitride To Improve Photocatalytic Activity. Chemistry of Materials, 2019, 31, 9188-9199.  | 3.2       | 57        |
| 48 | Phase transformation of melamine at high pressure and temperature. Journal of Materials Science, 2008, 43, 689-695.   | 1.7       | 55        |
| 49 | Hardness of cubic spinel Si3N4. Applied Physics Letters, 2004, 85, 5571-5573.   | 1.5       | 54        |
| 50 | Taming the Collapse of Optical Fields. Scientific Reports, 2012, 2, 1007.   | 1.6       | 54        |
| 51 | Exotic Cubic Carbon Allotropes. Journal of Physical Chemistry C, 2012, 116, 24233-24238.  | 1.5       | 53        |
| 52 | First-principles study of O-BN: A <i>sp</i> 3-bonding boron nitride allotrope. Journal of Applied Physics, 2012, 112, .   | 1.1       | 53        |
| 53 | High pressure synthesized Ca-filled CoSb3 skutterudites with enhanced thermoelectric properties.<br>Journal of Alloys and Compounds, 2016, 677, 61-65.  | 2.8       | 53        |
| 54 | Discovery of carbon-based strongest and hardest amorphous material. National Science Review, 2022,<br>9, nwab140.   | 4.6       | 49        |

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|----|--|-----|-----------|
| 55 | Orthorhombic B2CN crystal synthesized by high pressure and temperature. Chemical Physics Letters, 2001, 340, 431-436.  | 1.2 | 48        |
| 56 | Prediction of a sandwichlike conducting superhard boron carbide: First-principles calculations.<br>Physical Review B, 2006, 73, .  | 1.1 | 48        |
| 57 | Mechanochemically activated synthesis of zirconium carbide nanoparticles at room temperature: A simple route to prepare nanoparticles of transition metal carbides. Journal of the European Ceramic Society, 2011, 31, 1491-1496.  | 2.8 | 48        |
| 58 | Direct Observation of Room-Temperature Dislocation Plasticity in Diamond. Matter, 2020, 2, 1222-1232.  | 5.0 | 48        |
| 59 | Great thermoelectric power factor enhancement of CoSb3 through the lightest metal element filling.<br>Applied Physics Letters, 2011, 98, .   | 1.5 | 47        |
| 60 | Diffusion-controlled crystal growth in deeply undercooled melt on approaching the glass transition.<br>Physical Review B, 2011, 83, .  | 1.1 | 47        |
| 61 | Superconducting high-pressure phase of platinum hydride from first principles. Physical Review B, 2011, 84, .  | 1.1 | 47        |
| 62 | Application of hard ceramic materials B4C in energy storage: Design B4C@C core-shell nanoparticles<br>as electrodes for flexible all-solid-state micro-supercapacitors with ultrahigh cyclability. Nano<br>Energy, 2020, 75, 104947.   | 8.2 | 47        |
| 63 | Compressive Strength of Diamond from First-Principles Calculation. Journal of Physical Chemistry C, 2010, 114, 17851-17853.  | 1.5 | 46        |
| 64 | Bulk Re <sub>2</sub> C: Crystal Structure, Hardness, and Ultra-incompressibility. Crystal Growth and Design, 2010, 10, 5024-5026.  | 1.4 | 46        |
| 65 | Temperature dependent elastic constants for crystals with arbitrary symmetry: Combined first principles and continuum elasticity theory. Journal of Applied Physics, 2012, 111, .  | 1.1 | 46        |
| 66 | Structural Relaxation Dynamics in Binary Glass-Forming Molecular Liquids with Ideal and Complex Mixing Behavior. Journal of Physical Chemistry B, 2010, 114, 3618-3622.  | 1.2 | 45        |
| 67 | Sodium doped polycrystalline SnSe: High pressure synthesis and thermoelectric properties. Journal of<br>Alloys and Compounds, 2017, 727, 1014-1019.  | 2.8 | 44        |
| 68 | First-principles study of wurtzite <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi<br>mathvariant="normal"&gt;C<mml:mn>2</mml:mn></mml:mi<br></mml:msub><mml:mi<br>mathvariant="normal"&gt;N</mml:mi<br></mml:mrow></mml:math> . Physical Review B, 2007, 76, . | 1.1 | 43        |
| 69 | A "universal―criterion for metallic glass formation. Applied Physics Letters, 2012, 100, 261913.   | 1.5 | 43        |
| 70 | Bond ionicities and hardness ofB13C2-like structuredByXcrystals(X=C,N,O,P,As). Physical Review B, 2006, 73, .  | 1.1 | 42        |
| 71 | Enhanced thermoelectric properties in Co4Sb12â <sup>~°</sup> xTex alloys prepared by HPHT. Materials Letters, 2009, 63, 2139-2141.   | 1.3 | 42        |
| 72 | Grain-boundary-rich polycrystalline monolayer WS2 film for attomolar-level Hg2+ sensors. Nature<br>Communications, 2021, 12, 3870.   | 5.8 | 42        |

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|----|--|-----|-----------|
| 73 | Chalcopyrite polymorph for superhard BC2N. Applied Physics Letters, 2006, 89, 151911.  | 1.5 | 41        |
| 74 | Amorphous silicoboron carbonitride monoliths resistant to flowing air up to 1800 °C. Corrosion<br>Science, 2016, 109, 162-173.   | 3.0 | 41        |
| 75 | Semiconducting Superhard Ruthenium Monocarbide. Journal of Physical Chemistry C, 2010, 114, 9961-9964.   | 1.5 | 40        |
| 76 | Dislocation behaviors in nanotwinned diamond. Science Advances, 2018, 4, eaat8195.   | 4.7 | 40        |
| 77 | Crystal structure and stability of magnesium borohydride from first principles. Physical Review B, 2009, 79, .   | 1.1 | 39        |
| 78 | A superhard sp3 microporous carbon with direct bandgap. Chemical Physics Letters, 2017, 689, 68-73.  | 1.2 | 39        |
| 79 | Refined Crystal Structure and Mechanical Properties of Superhard BC <sub>4</sub> N Crystal:<br>First-Principles Calculations. Journal of Physical Chemistry C, 2008, 112, 9516-9519. | 1.5 | 38        |
| 80 | Structure and mechanical properties of osmium carbide: First-principles calculations. Applied Physics<br>Letters, 2008, 93, .  | 1.5 | 38        |
| 81 | Ultrahardness: Measurement and Enhancement. Journal of Physical Chemistry C, 2015, 119, 5633-5638.   | 1.5 | 37        |
| 82 | High pressure synthesis and thermoelectric properties of polycrystalline Bi2Se3. Journal of Alloys and Compounds, 2017, 700, 223-227.  | 2.8 | 37        |
| 83 | Theoretical hardness of the cubic BC2N. Diamond and Related Materials, 2007, 16, 526-530.  | 1.8 | 36        |
| 84 | Degradable magnesiumâ€based implant materials with antiâ€inflammatory activity. Journal of Biomedical<br>Materials Research - Part A, 2013, 101A, 1898-1906.                         | 2.1 | 36        |
| 85 | Bulk modulus for polar covalent crystals. Scientific Reports, 2013, 3, 3068.   | 1.6 | 35        |
| 86 | Investigation of skutterudite MgyCo4Sb12: High pressure synthesis and thermoelectric properties.<br>Journal of Applied Physics, 2013, 113, 113703.                                   | 1.1 | 35        |
| 87 | Synthesis of iodine filled CoSb 3 with extremely low thermal conductivity. Journal of Alloys and Compounds, 2014, 615, 177-180.  | 2.8 | 34        |
| 88 | Prediction of a Three-Dimensional Conductive Superhard Material: Diamond-like BC <sub>2</sub> .<br>Journal of Physical Chemistry C, 2010, 114, 22688-22690.                          | 1.5 | 33        |
| 89 | Glass Transition in Binary Eutectic Systems: Best Glass-Forming Composition. Journal of Physical<br>Chemistry B, 2010, 114, 12080-12084.   | 1.2 | 33        |
| 90 | Superhard superstrong carbon clathrate. Carbon, 2016, 105, 151-155.  | 5.4 | 33        |

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|-----|--|----------|---------------------|
| 91  | First-principles study of crystal structures and superconductivity of ternary <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>YSH</mml:mi><mml:mn>6and <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>LaSH</mml:mi><mml:mn>6<td>1.1</td><td>33</td></mml:mn></mml:msub></mml:math<br></mml:mn></mml:msub></mml:math<br>                             | 1.1      | 33                  |
| 92  | Mechanical polishing of ultrahard nanotwinned diamond via transition into hard sp2-sp3 amorphous carbon. Carbon, 2020, 161, 1-6.   | 5.4      | 33                  |
| 93  | Body-centered supernard <mml:math inline"="" xmins:mml="http://www.w3.org/1998/Math/Math/Math/M&lt;br&gt;display="><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:msub><mml:mi<br>mathvariant="normal"&gt;C<mml:mn>2</mml:mn></mml:mi<br></mml:msub><mml:mi<br>mathvariant="normal"&gt;N</mml:mi<br></mml:msub></mml:mrow></mml:math> phases from first principles. Physical<br>Review B, 2007, 76, . | 1.1      | 32                  |
| 94  | A tetragonal phase of superhard BC2N. Journal of Applied Physics, 2009, 105, .   | 1.1      | 32                  |
| 95  | Enhanced thermoelectric performance of AgSbTe2 synthesized by high pressure and high temperature.<br>Journal of Applied Physics, 2009, 105, 073713.  | 1.1      | 32                  |
| 96  | Continuous strengthening in nanotwinned diamond. Npj Computational Materials, 2019, 5, .   | 3.5      | 32                  |
| 97  | Porous bismuth antimony telluride alloys with excellent thermoelectric and mechanical properties.<br>Journal of Materials Chemistry A, 2021, 9, 4990-4999.   | 5.2      | 32                  |
| 98  | Metallic layered germanium phosphide GeP <sub>5</sub> for high rate flexible all-solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 19409-19416.  | 5.2      | 31                  |
| 99  | Direct large-scale fabrication of C-encapsulated B4C nanoparticles with tunable dielectric properties as excellent microwave absorbers. Carbon, 2019, 148, 504-511.  | 5.4      | 30                  |
| 100 | On ageing and critical thickness of YBa2Cu3O7 films on Si with CeO2/YSZ buffer layers. Thin Solid Films, 1999, 338, 224-230.   | 0.8      | 29                  |
| 101 | Is orthorhombic iron tetraboride superhard?. Journal of Materiomics, 2015, 1, 45-51.   | 2.8      | 29                  |
| 102 | Structure and thermoelectric properties of Se- and Se/Te-doped CoSb3 skutterudites synthesized by high-pressure technique. Journal of Alloys and Compounds, 2015, 647, 295-302.  | 2.8      | 29                  |
| 103 | Fabrication of multifunctional carbon encapsulated Ni@NiO nanocomposites for oxygen reduction, oxygen evolution and lithium-ion battery anode materials. Science China Materials, 2017, 60, 947-954.   | 3.5      | 29                  |
| 104 | Enhanced thermoelectric performance of Na-doped PbTe synthesized under high pressure. Science China Materials, 2018, 61, 1218-1224.  | 3.5      | 29                  |
| 105 | Unusual compression behavior of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2<br/>from first principles. Physical Review B, 2010, 82, .</mml:mn></mml:msub></mml:mrow></mml:math>   | ⊲/mml:mr | <b>ո 28/</b> mml:ms |
| 106 | Spark plasma sintering of the nonstoichiometric ultrafine-grained titanium carbides with nano<br>superstructural domains of the ordered carbon vacancies. Materials Chemistry and Physics, 2011, 130,<br>352-360.  | 2.0      | 28                  |
| 107 | Superstructural nanodomains of ordered carbon vacancies in nonstoichiometric<br>ZrC <sub>0.61</sub> . Journal of Materials Research, 2012, 27, 1230-1236.  | 1.2      | 28                  |
| 108 | High-pressure behaviors of carbon nanotubes. Journal of Superhard Materials, 2012, 34, 371-385.  | 0.5      | 28                  |

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|-----|--|-----|-----------|
| 109 | Cubic-C3N4 nanoparticles synthesized in CNx/TiNx multilayer films. Chemical Physics Letters, 2001, 334, 7-11.  | 1.2 | 27        |
| 110 | Tearing, folding and deformation of a carbon–carbon sp2-bonded network. Carbon, 2006, 44, 1544-1547.   | 5.4 | 27        |
| 111 | Structural and thermoelectric characterizations of high pressure sintered nanocrystalline Bi2Te3 bulks. Materials Research Bulletin, 2012, 47, 1432-1437.  | 2.7 | 27        |
| 112 | High-Tc directly coupled direct current SQUID gradiometer with flip-chip flux transformer. Applied Physics Letters, 1999, 74, 1302-1304.   | 1.5 | 26        |
| 113 | Study on hot deformation behavior of 12%Cr ultra-super-critical rotor steel. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 108-113.          | 2.6 | 26        |
| 114 | Dielectric relaxation of long-chain glass-forming monohydroxy alcohols. Journal of Chemical Physics, 2013, 139, 164504.  | 1.2 | 26        |
| 115 | Predicting the ground-state structure of sodium boride. Physical Review B, 2018, 97, .   | 1.1 | 26        |
| 116 | Enhanced thermoelectric performance of lanthanum filled CoSb 3 synthesized under high pressure.<br>Journal of Alloys and Compounds, 2017, 699, 751-755.  | 2.8 | 25        |
| 117 | Magnetic borophenes from an evolutionary search. Physical Review B, 2019, 99, .  | 1.1 | 25        |
| 118 | Preparation of dense B4C ceramics by spark plasma sintering of high-purity nanoparticles. Journal of the European Ceramic Society, 2021, 41, 3929-3936.  | 2.8 | 25        |
| 119 | Large area, low microwave surface resistance thin films of YBa2Cu3O7 prepared by pulsed laser ablation. Physica C: Superconductivity and Its Applications, 1994, 220, 114-118.                                   | 0.6 | 24        |
| 120 | Potential superhard cubic spinel CSi2N4: First-principles investigations. Journal of Applied Physics, 2008, 103, .   | 1.1 | 24        |
| 121 | Highly Dense Amorphous Si <sub>2</sub> BC <sub>3</sub> N Monoliths with Excellent Mechanical<br>Properties Prepared by High Pressure Sintering. Journal of the American Ceramic Society, 2015, 98,<br>3782-3787. | 1.9 | 24        |
| 122 | Optically uniaxial left-handed materials. Physical Review B, 2005, 72, .   | 1.1 | 23        |
| 123 | Temperature and pressure dependent geometry optimization and elastic constant calculations for<br>arbitrary symmetry crystals: Applications to MgSiO3 perovskites. Journal of Applied Physics, 2013, 113, .      | 1.1 | 23        |
| 124 | A new phase from compression of carbon nanotubes with anisotropic Dirac fermions. Scientific Reports, 2015, 5, 10713.  | 1.6 | 23        |
| 125 | Large-area YBCO films for device fabrication. Superconductor Science and Technology, 1998, 11, 59-62.  | 1.8 | 22        |
| 126 | First-principles study of B2CN crystals deduced from the diamond structure. Journal of Physics<br>Condensed Matter, 2004, 16, 8131-8138.   | 0.7 | 22        |

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|-----|---|-----|-----------|
| 127 | First-principles study of atomic oxygen adsorption on boron-substituted graphite. Surface Science, 2008, 602, 37-45.  | 0.8 | 22        |
| 128 | Unbinding force of chemical bonds and tensile strength in strong crystals. Journal of Physics<br>Condensed Matter, 2009, 21, 485405.  | 0.7 | 22        |
| 129 | Magnetic frustration effect in polycrystalline Ga2â^'xFexO3. Journal of Magnetism and Magnetic Materials, 2010, 322, 3595-3600.   | 1.0 | 22        |
| 130 | Effect of backward extrusion on microstructure and mechanical properties of Mg–Gd based alloy.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2012, 532, 443-448.  | 2.6 | 22        |
| 131 | An <i>ab initio</i> study on the transition paths from graphite to diamond under pressure. Journal of Physics Condensed Matter, 2013, 25, 145402.   | 0.7 | 22        |
| 132 | Preparation of large-area high-quality YBCO thin films by pulsed laser deposition with Si heater and composite scanning of laser and target. Journal of Superconductivity and Novel Magnetism, 1993, 6, 335-337.  | 0.5 | 21        |
| 133 | Antiferromagnetic interlayer coupling in Pt/Co multilayers with perpendicular anisotropy. Physical<br>Review B, 2009, 79, .   | 1.1 | 21        |
| 134 | Prediction of a superconductive superhard material: Diamond-like BC7. Journal of Applied Physics, 2011, 110, 013501.  | 1.1 | 21        |
| 135 | Gadolinium filled CoSb3: High pressure synthesis and thermoelectric properties. Materials Letters, 2013, 98, 171-173.   | 1.3 | 21        |
| 136 | Role of plastic deformation in tailoring ultrafine microstructure in nanotwinned diamond for enhanced hardness. Science China Materials, 2017, 60, 178-185.   | 3.5 | 21        |
| 137 | Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealingâ€Created<br>Monolayer WS <sub>2</sub> Bubbles. Advanced Optical Materials, 2019, 7, 1801373.  | 3.6 | 21        |
| 138 | Predicting three-dimensional icosahedron-based boron <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi<br>mathvariant="normal"&gt;B <mml:mn>60</mml:mn> </mml:mi<br></mml:msub> . Physical Review B,<br/>2019, 99, .</mml:math<br> | 1.1 | 21        |
| 139 | Correlation between distribution of outgrowths and microwave surface resistance for YBa2Cu3O7thin films. Applied Physics Letters, 1994, 65, 2356-2358.  | 1.5 | 20        |
| 140 | Preparation of CNx/TiNy multilayers by ion beam sputtering. Journal of Crystal Growth, 2001, 233, 303-311.  | 0.7 | 20        |
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