Baisheng Sa

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.

3,171 29 114 53 h-index g-index citations papers 6.3 4,159 123 5.73 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 114 | Computational design of double transition metal MXenes with intrinsic magnetic properties <i>Nanoscale Horizons</i> , 2022 , | 10.8 | 5 |
| 113 | Promoting effect of (Co, Ni)O solid solution on Pd catalysts for ethylene glycol electrooxidation in alkaline solution. <i>Electrochimica Acta</i> , 2022 , 408, 139965 | 6.7 | 0 |
| 112 | Effect of nitrogen on the structure evolution and biological properties of mesoporous bioactive glass nanospheres: Experiments and simulations. <i>Journal of Non-Crystalline Solids</i> , 2022 , 578, 121329 | 3.9 | 2 |
| 111 | Breaking the linear scaling relations in MXene catalysts for efficient CO2 reduction. <i>Chemical Engineering Journal</i> , 2022 , 429, 132171 | 14.7 | 6 |
| 110 | A reasonable approach to describe the atom distributions and configurational entropy in high entropy alloys based on site preference. <i>Intermetallics</i> , 2022 , 144, 107489 | 3.5 | O |
| 109 | Ion-conductive gradient sodiophilic 3D scaffold induced homogeneous sodium deposition for highly stable sodium metal batteries. <i>Nano Energy</i> , 2022 , 97, 107202 | 17.1 | 5 |
| 108 | Enhancing cycling stability in Li-rich Mn-based cathode materials by solid-liquid-gas integrated interface engineering. <i>Nano Energy</i> , 2022 , 97, 107201 | 17.1 | 2 |
| 107 | Understanding the anchoring effect on Li plating with Indium Tin oxide layer functionalized hosts for Li metal anodes. <i>Chemical Engineering Journal</i> , 2022 , 440, 135827 | 14.7 | 1 |
| 106 | Hybrid Chiral MoS Layers for Spin-Polarized Charge Transport and Spin-Dependent Electrocatalytic Applications <i>Advanced Science</i> , 2022 , e2201063 | 13.6 | O |
| 105 | Simultaneously achieving high performance of energy storage and transparency via A-site non-stoichiometric defect engineering in KNN-based ceramics. <i>Chemical Engineering Journal</i> , 2022 , 444, 136538 | 14.7 | 3 |
| 104 | Tailoring micro-structure of eco-friendly temperature-insensitive transparent ceramics achieving superior piezoelectricity. <i>Acta Materialia</i> , 2022 , 118061 | 8.4 | O |
| 103 | Layer-Tunable Nonlinear Optical Characteristics and Photocarrier Dynamics of 2D PdSe in Broadband Spectra. <i>Small</i> , 2021 , 17, e2103938 | 11 | 8 |
| 102 | The interlayer coupling modulation of a g-CN/WTe heterostructure for solar cell applications <i>RSC Advances</i> , 2021 , 12, 998-1004 | 3.7 | 2 |
| 101 | Switchable two-dimensional electrides: A first-principles study. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 6 |
| 100 | Anchoring Polysulfides and Accelerating Redox Reaction Enabled by Fe-Based Compounds in LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100970 | 15.6 | 23 |
| 99 | Manipulating the Local Electronic Structure in Li-Rich Layered Cathode Towards Superior Electrochemical Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2100783 | 15.6 | 16 |
| 98 | Structural, Electronic, and Nonlinear Optical Properties of CH and CCl Encapsulating Li and F Atoms. <i>ACS Omega</i> , 2021 , 6, 16234-16240 | 3.9 | O |

(2021-2021)

| 97 | InSe/Te van der Waals Heterostructure as a High-Efficiency Solar Cell from Computational Screening. <i>Materials</i> , 2021 , 14, | 3.5 | 4 | |
|----|---|------|----|--|
| 96 | Structural behavior and in vitro bioactivity evaluation of hydroxyapatite-like bioactive glass based on the SiO2-CaO-P2O5 system. <i>Ceramics International</i> , 2021 , 47, 18094-18104 | 5.1 | 3 | |
| 95 | Pressure-induced structure, electronic, thermodynamic and mechanical properties of Ti2AlNb orthorhombic phase by first-principles calculations. <i>Rare Metals</i> , 2021 , 40, 1-11 | 5.5 | 6 | |
| 94 | Sodiophilic Zn/SnO2 porous scaffold to stabilize sodium deposition for sodium metal batteries. <i>Chemical Engineering Journal</i> , 2021 , 404, 126469 | 14.7 | 11 | |
| 93 | Two-dimensional (Zr0.5Hf0.5)2CO2: A promising visible light water-splitting photocatalyst with efficiently carrier separation. <i>Computational Materials Science</i> , 2021 , 186, 110013 | 3.2 | 2 | |
| 92 | MXenes: promising donor and acceptor materials for high-efficiency heterostructure solar cells. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 135-143 | 5.8 | 15 | |
| 91 | Smart white lighting and multi-mode optical modulations via photochromism in Dy-doped KNN-based transparent ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 903-916 | 3.8 | 22 | |
| 90 | Computational discovery of PtS/GaSe van der Waals heterostructure for solar energy applications. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20163-20173 | 3.6 | 6 | |
| 89 | Rapid and Large-Scale Quality Assessment of Two-Dimensional MoS Using Sulfur Particles with Optical Visualization. <i>Nano Letters</i> , 2021 , 21, 1260-1266 | 11.5 | 4 | |
| 88 | GeP/NbX (X=S, Se) Nano-Heterostructures: Promising Isotropic Flexible Anodes for Lithium-Ion Batteries with High Lithium Storage Capacity. <i>ACS Omega</i> , 2021 , 6, 2956-2965 | 3.9 | 1 | |
| 87 | Microscopic origin of graphene nanosheets derived from coal-tar pitch by treating AlC as the intermediate. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12449-12455 | 3.6 | 0 | |
| 86 | Multiscale Deficiency Integration by Na-Rich Engineering for High-Stability Li-Rich Layered Oxide Cathodes. <i>ACS Applied Materials & Samp; Interfaces</i> , 2021 , 13, 8239-8248 | 9.5 | 7 | |
| 85 | Effect of B2O3 on the structural and in vitro biological assessment of mesoporous bioactive glass nanospheres. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3058-3072 | 3.8 | 1 | |
| 84 | Utilizing the different distribution habit of La and Zr in Li-rich Mn-based cathode to achieve fast lithium-ion diffusion kinetics. <i>Journal of Power Sources</i> , 2021 , 499, 229915 | 8.9 | 9 | |
| 83 | A Universal Strategy toward the Precise Regulation of Initial Coulombic Efficiency of Li-Rich Mn-Based Cathode Materials. <i>Advanced Materials</i> , 2021 , 33, e2103173 | 24 | 27 | |
| 82 | Defect Management and Multi-Mode Optoelectronic Manipulations via Photo-Thermochromism in Smart Windows. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100211 | 8.3 | 19 | |
| 81 | Piezotronic-enhanced photocatalytic performance of heterostructured BaTiO3/SrTiO3 nanofibers. <i>Nano Energy</i> , 2021 , 89, 106391 | 17.1 | 11 | |
| 80 | Functionalized Mo2B2 MBenes: Promising anchoring and electrocatalysis materials for Lithium-Sulfur battery. <i>Applied Surface Science</i> , 2021 , 566, 150634 | 6.7 | 5 | |
| | | | | |

| 79 | Computational mining of Janus Sc2C-based MXenes for spintronic, photocatalytic, and solar cell applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10882-10892 | 13 | 14 |
|--|--|------------------------|---------------------|
| 78 | 3D uniform nitrogen-doped carbon skeleton for ultra-stable sodium metal anode. <i>Nano Research</i> , 2020 , 13, 2136-2142 | 10 | 30 |
| 77 | Two-dimensional O-phase group III monochalcogenides for photocatalytic water splitting. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 065501 | 1.8 | 2 |
| 76 | Electronic Anisotropy and Superconductivity in One-Dimensional Electride Ca3Si. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7683-7690 | 3.8 | 4 |
| 75 | High-performance III-VI monolayer transistors for flexible devices. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7039-7047 | 3.6 | 3 |
| 74 | A lightweight and low-cost electrode for lithium-ion batteries derived from paper towel supported MOF arrays. <i>Chemical Communications</i> , 2020 , 56, 5847-5850 | 5.8 | 5 |
| 73 | Rational construction of heterostructured core-shell Bi2S3@Co9S8 complex hollow particles toward high-performance Li- and Na-ion storage. <i>Energy Storage Materials</i> , 2020 , 29, 121-130 | 19.4 | 43 |
| 72 | M2C-type MXenes: Promising catalysts for CO2 capture and reduction. <i>Applied Surface Science</i> , 2020 , 521, 146436 | 6.7 | 31 |
| 71 | Atomically scale design of van der Waals heterostructures as photocatalysts 2020 , 511-525 | | 0 |
| | | | |
| 70 | Construction of sugar gourd-like yolk-shell NiMoCoB nanocage arrays for high-performance alkaline battery. <i>Energy Storage Materials</i> , 2020 , 25, 105-113 | 19.4 | 26 |
| 70 69 | | 19.4 | 26 |
| | alkaline battery. Energy Storage Materials, 2020, 25, 105-113 3D lithiophilic[Ithiophobic[Ithiophilic dual-gradient porous skeleton for highly stable lithium | | |
| 69 | alkaline battery. Energy Storage Materials, 2020, 25, 105-113 3D lithiophilicIlthiophobicIlthiophilic dual-gradient porous skeleton for highly stable lithium metal anode. Journal of Materials Chemistry A, 2020, 8, 313-322 Prediction of superconductivity and topological aspects in single-layer Bi2Pd. Physical Review B, | 13 | 43 |
| 69 68 | alkaline battery. Energy Storage Materials, 2020, 25, 105-113 3D lithiophilicIlthiophobicIlthiophilic dual-gradient porous skeleton for highly stable lithium metal anode. Journal of Materials Chemistry A, 2020, 8, 313-322 Prediction of superconductivity and topological aspects in single-layer Bi2Pd. Physical Review B, 2020, 102, Reducing polarization of lithium-sulfur batteries via ZnS/reduced graphene oxide accelerated | 13 3·3 | 43 |
| 69 68 67 | alkaline battery. Energy Storage Materials, 2020, 25, 105-113 3D lithiophilicIlthiophobicIlthiophilic dual-gradient porous skeleton for highly stable lithium metal anode. Journal of Materials Chemistry A, 2020, 8, 313-322 Prediction of superconductivity and topological aspects in single-layer Bi2Pd. Physical Review B, 2020, 102, Reducing polarization of lithium-sulfur batteries via ZnS/reduced graphene oxide accelerated lithium polysulfide conversion. Materials Today Energy, 2020, 18, 100519 Tunable Contacts in Graphene/InSe van der Waals Heterostructures. Journal of Physical Chemistry C, | 13 3·3 7 | 43 4 25 |
| 69 68 67 66 | alkaline battery. Energy Storage Materials, 2020, 25, 105-113 3D lithiophilicIlthiophobicIlthiophilic dual-gradient porous skeleton for highly stable lithium metal anode. Journal of Materials Chemistry A, 2020, 8, 313-322 Prediction of superconductivity and topological aspects in single-layer Bi2Pd. Physical Review B, 2020, 102, Reducing polarization of lithium-sulfur batteries via ZnS/reduced graphene oxide accelerated lithium polysulfide conversion. Materials Today Energy, 2020, 18, 100519 Tunable Contacts in Graphene/InSe van der Waals Heterostructures. Journal of Physical Chemistry C, 2020, 124, 23699-23706 Comprehensive understanding of intrinsic mobility in the monolayers of III-VI group 2D materials. | 13 3·3 7 3.8 | 43 4 25 10 |
| 6968676665 | alkaline battery. Energy Storage Materials, 2020, 25, 105-113 3D lithiophilicIlthiophobicIlthiophilic dual-gradient porous skeleton for highly stable lithium metal anode. Journal of Materials Chemistry A, 2020, 8, 313-322 Prediction of superconductivity and topological aspects in single-layer Bi2Pd. Physical Review B, 2020, 102, Reducing polarization of lithium-sulfur batteries via ZnS/reduced graphene oxide accelerated lithium polysulfide conversion. Materials Today Energy, 2020, 18, 100519 Tunable Contacts in Graphene/InSe van der Waals Heterostructures. Journal of Physical Chemistry C, 2020, 124, 23699-23706 Comprehensive understanding of intrinsic mobility in the monolayers of III-VI group 2D materials. Physical Chemistry Chemical Physics, 2019, 21, 21898-21907 Effect of nickel doping on structure and suppressing boron volatility of borosilicate glass sealants | 3.3 7 3.8 3.6 | 43 4 25 10 |

(2017-2019)

| 61 | III-VI van der Waals heterostructures for sustainable energy related applications. <i>Nanoscale</i> , 2019 , 11, 6431-6444 | 7.7 | 45 |
|----|---|-----------------------------------|-----|
| 60 | Elastic Anisotropy and Optic Isotropy in Black Phosphorene/Transition-Metal Trisulfide van der Waals Heterostructures. <i>ACS Omega</i> , 2019 , 4, 4101-4108 | 3.9 | 10 |
| 59 | Mechanical and bioactive properties of lithium disilicate glass-ceramic mixtures synthesized by two different methods. <i>Journal of Non-Crystalline Solids</i> , 2019 , 509, 1-9 | 3.9 | 12 |
| 58 | Boosting Upconversion Photoluminescence and Multielectrical Properties via Er-Doping-Modulated Vacancy Control in BaCaTiZrO. <i>ACS Omega</i> , 2019 , 4, 11004-11013 | 3.9 | 5 |
| 57 | Reversible modulation of photoenergy in Sm-doped (K0.5Na0.5)NbO3 transparent ceramics via photochromic behavior. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19374-19384 | 13 | 59 |
| 56 | Enhanced photocatalytic performance of black phosphorene by isoelectronic co-dopants. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2369-2378 | 6.8 | 5 |
| 55 | MOF-Derived Hybrid Hollow Submicrospheres of Nitrogen-Doped Carbon-Encapsulated Bimetallic Ni-Co-S Nanoparticles for Supercapacitors and Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2019 , 58, 3916 | 5 ⁵ 3 ⁵ 924 | 53 |
| 54 | Prediction of site occupancy of C15 Laves phase at finite temperature based on quasi-harmonic approximation model. <i>Intermetallics</i> , 2018 , 96, 33-40 | 3.5 | 6 |
| 53 | Rigid-resilient transition in calcium borosilicate sealing glass deramics: Effect of preferred orientation. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2410-2416 | 6 | 3 |
| 52 | New gallium chalcogenides/arsenene van der Waals heterostructures promising for photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15995-16004 | 6.7 | 34 |
| 51 | Microstructures and thermodynamic properties of high-entropy alloys CoCrCuFeNi. <i>Intermetallics</i> , 2018 , 93, 40-46 | 3.5 | 29 |
| 50 | Computational mining of the pressure effect on thermodynamic and thermoelectric properties of cubic Ca 2 Si. <i>Europhysics Letters</i> , 2018 , 123, 67003 | 1.6 | 2 |
| 49 | Structural stability and thermoelectric property optimization of Ca2Si. RSC Advances, 2017, 7, 8936-894 | 3 3.7 | 9 |
| 48 | Elastic and thermodynamic properties of the Ti2AlNb orthorhombic phase from first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600634 | 1.3 | 9 |
| 47 | Computational mining of photocatalysts for water splitting hydrogen production: two-dimensional InSe-family monolayers. <i>Catalysis Science and Technology</i> , 2017 , 7, 2744-2752 | 5.5 | 94 |
| 46 | One-pot synthesis of Pt/CeO 2 /C catalyst for improving the ORR activity and durability of PEMFC. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13011-13019 | 6.7 | 53 |
| 45 | Unexpected elastic isotropy in a black phosphorene/TiC2 van der Waals heterostructure with flexible Li-ion battery anode applications. <i>Nano Research</i> , 2017 , 10, 3136-3150 | 10 | 55 |
| 44 | Strain-mediated type-I/type-II transition in MXene/Blue phosphorene van der Waals heterostructures for flexible optical/electronic devices. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 978-98 | 3 4 ·1 | 117 |

| 43 | Few-layer arsenic trichalcogenides: Emerging two-dimensional semiconductors with tunable indirect-direct band-gaps. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 554-560 | 5.7 | 23 |
|----|--|-----------------------|-----|
| 42 | First-principle investigation of TcSe2 monolayer as an efficient visible light photocatalyst for water splitting hydrogen production. <i>Research on Chemical Intermediates</i> , 2017 , 43, 5271-5282 | 2.8 | 11 |
| 41 | Pressure-Induced Destabilization and Anomalous Lattice Distortion in TcO. <i>Inorganic Chemistry</i> , 2017 , 56, 9973-9978 | 5.1 | 1 |
| 40 | Electric field-modulated data storage in bilayer InSe. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12228-12 | 2 <i>3</i> 3 <u>4</u> | 38 |
| 39 | Improving the electrocatalytic properties of Pd-based catalyst for direct alcohol fuel cells: effect of solid solution. <i>Scientific Reports</i> , 2017 , 7, 4907 | 4.9 | 30 |
| 38 | Review of two-dimensional materials for photocatalytic water splitting from a theoretical perspective. <i>Catalysis Science and Technology</i> , 2017 , 7, 545-559 | 5.5 | 251 |
| 37 | Electronic structures and enhanced optical properties of blue phosphorene/transition metal dichalcogenides van der Waals heterostructures. <i>Scientific Reports</i> , 2016 , 6, 31994 | 4.9 | 158 |
| 36 | The pressure induced twisted distortion in the flexible oxide Tc2O7. <i>CrystEngComm</i> , 2016 , 18, 328-333 | 3.3 | 5 |
| 35 | The development of two dimensional group IV chalcogenides, blocks for van der Waals heterostructures. <i>Nanoscale</i> , 2016 , 8, 1169-78 | 7.7 | 49 |
| 34 | Pressure-induced semimetal-semiconductor transition and enhancement of thermoelectric performance in EMgAgSb. <i>Applied Physics Letters</i> , 2016 , 108, 213902 | 3.4 | 19 |
| 33 | Blue Phosphorene/MS2 (M = Nb, Ta) Heterostructures As Promising Flexible Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Acs Applied </i> | 9.5 | 134 |
| 32 | Polyhedral transformation and phase transition in TcO2. <i>RSC Advances</i> , 2015 , 5, 1690-1696 | 3.7 | 7 |
| 31 | The electronic origin of shear-induced direct to indirect gap transition and anisotropy diminution in phosphorene. <i>Nanotechnology</i> , 2015 , 26, 215205 | 3.4 | 21 |
| 30 | Manipulating carriers Repin polarization in the Heusler alloy Mn2CoAl. RSC Advances, 2015, 5, 73814-738 | 1 9 7 | 9 |
| 29 | Band gap engineering in huge-gap semiconductor SrZrO3 for visible-light photocatalysis. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2042-2048 | 6.7 | 51 |
| 28 | Electron interactions and Dirac fermions in graphene-Ge2Sb2Te5 superlattices. <i>Journal of Applied Physics</i> , 2014 , 115, 233714 | 2.5 | 13 |
| 27 | Strain Engineering for Phosphorene: The Potential Application as a Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26560-26568 | 3.8 | 314 |
| 26 | Design of High-Efficiency Visible-Light Photocatalysts for Water Splitting: MoS2/AlN(GaN) Heterostructures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17594-17599 | 3.8 | 269 |

(2011-2014)

| 25 | First-principles investigations of electronic and mechanical properties for stable Ge2Sb2Te5 with van der Waals corrections. <i>Computational Materials Science</i> , 2014 , 82, 66-69 | 3.2 | 48 |
|----|--|-----|-----|
| 24 | First principles investigation of the structure and electronic properties of Cu2Te. <i>Computational Materials Science</i> , 2014 , 81, 163-169 | 3.2 | 26 |
| 23 | Strain-induced tunability of optical and photocatalytic properties of ZnO mono-layer nanosheet. <i>Computational Materials Science</i> , 2014 , 91, 38-42 | 3.2 | 19 |
| 22 | Atomic scale insight into the amorphous structure of Cu doped GeTe phase-change material. <i>Journal of Applied Physics</i> , 2014 , 116, 153501 | 2.5 | 7 |
| 21 | The Electronic Origin of the Underestimated Trigonal Shear Constant of Zr1\(\mathbb{R}\)Nbx Super Alloys from First-Principles Calculations. <i>Science of Advanced Materials</i> , 2014 , 6, 659-664 | 2.3 | 2 |
| 20 | Role of oxygen vacancies in the resistive switching of SrZrO3 for resistance random access memory. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 148-151 | 5.7 | 37 |
| 19 | Investigation of the structure and properties of rhombohedral Cullelle alloys by ab initio calculations. <i>Intermetallics</i> , 2013 , 32, 292-296 | 3.5 | 14 |
| 18 | AnionAnion Mediated Coupling in Layered Perovskite La2Ti2O7 for Visible Light Photocatalysis. Journal of Physical Chemistry C, 2013 , 117, 13845-13852 | 3.8 | 39 |
| 17 | Different topological insulating behavior in EGaS and GaS-II under uniaxial tension. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 4 |
| 16 | Structural and Vibrational Properties of Layered Data Storage Material: Ge2Sb2Te5. <i>Science of Advanced Materials</i> , 2013 , 5, 1493-1497 | 2.3 | 10 |
| 15 | Local atomic structure in molten Si3Sb2Te3 phase change material. <i>Solid State Communications</i> , 2012 , 152, 100-103 | 1.6 | 2 |
| 14 | Topological insulating in GeTe/Sb2Te3 phase-change superlattice. <i>Physical Review Letters</i> , 2012 , 109, 096802 | 7.4 | 117 |
| 13 | First-principles investigation of mechanical and thermodynamic properties of the rare earth intermetallic YbAl3 under pressure. <i>Intermetallics</i> , 2012 , 22, 92-98 | 3.5 | 15 |
| 12 | Strain-induced topological insulating behavior in ternary chalcogenide Ge 2 Sb 2 Te 5. <i>Europhysics Letters</i> , 2012 , 97, 27003 | 1.6 | 15 |
| 11 | Theoretical investigation on the transition-metal borides with Ta3B4-type structure: A class of hard and refractory materials. <i>Computational Materials Science</i> , 2011 , 50, 1559-1566 | 3.2 | 121 |
| 10 | Electronic mechanism of shear modulus enhancement in rare earth intermetallics Yb1\(\mathbb{U}\)TmxAl3. <i>Intermetallics</i> , 2011 , 19, 1020-1023 | 3.5 | 4 |
| 9 | Mechanical properties and electronic structure of the incompressible rhenium carbides and nitrides: A first-principles study. <i>Solid State Communications</i> , 2011 , 151, 1842-1845 | 1.6 | 14 |
| 8 | Pressure-induced topological insulating behavior in the ternary chalcogenide Ge2Sb2Te5. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 35 |

| 7 | Origin of p-type conductivity in layered nGeTellmSb2Te3 chalcogenide semiconductors. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 33 | |
|---|---|-----|----|--|
| 6 | Ab Initio Study on Hexagonal Ge2Sb2Te5-A Phase-Change Material for Nonvolatile Memories. <i>Materials Science Forum</i> , 2011 , 687, 7-11 | 0.4 | 1 | |
| 5 | Ab initio study of the structure and chemical bonding of stable Ge(3)Sb(2)Te(6). <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1585-8 | 3.6 | 34 | |
| 4 | First-principles investigations on phase stability and electronic structures of Yb1 MxAl3 (MI=IHo, Er and Tm) alloys. <i>Intermetallics</i> , 2010 , 18, 2394-2398 | 3.5 | 20 | |
| 3 | Investigation on Ge5⊠ Sb x Te5 phase-change materials by first-principles method. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 961-964 | 2.6 | 4 | |
| 2 | Phase stability and electronic structure of Si2Sb2Te5 phase-change material. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1165-1167 | 3.9 | 2 | |
| 1 | First-principles investigation on the phase stability and chemical bonding of phase-change random alloys. Solid State Communications, 2010, 150, 1375-1377 | 1.6 | 10 | |