

# Jian Zhou

## List of Publications by Citations

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522  
papers

16,486  
citations

63  
h-index

106  
g-index

541  
ext. papers

20,088  
ext. citations

5.1  
avg, IF

7.49  
L-index

#	Paper	IF	Citations
522	Penta-graphene: A new carbon allotrope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 2372-7	11.5	763
521	MXene: a promising photocatalyst for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11446-11452	11.5	404
520	Magnetism of phthalocyanine-based organometallic single porous sheet. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 15113-9	16.4	289
519	Design of High-Efficiency Visible-Light Photocatalysts for Water Splitting: MoS <sub>2</sub> /AlN(GaN) Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17594-17599	3.8	269
518	Structure of phase change materials for data storage. <i>Physical Review Letters</i> , <b>2006</b> , 96, 055507	7.4	264
517	Electronic and magnetic properties of a BN sheet decorated with hydrogen and fluorine. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	247
516	MXene and MXene-based composites: synthesis, properties and environment-related applications. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 235-258	10.8	240
515	Flexible, Highly Graphitized Carbon Aerogels Based on Bacterial Cellulose/Lignin: Catalyst-Free Synthesis and its Application in Energy Storage Devices. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3193-3202	15.6	219
514	Half-Metallic Ferromagnetism and Surface Functionalization-Induced Metal-Insulator Transition in Graphene-like Two-Dimensional Cr <sub>2</sub> C Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17510-5	9.5	218
513	Long-term prediction model of rockburst in underground openings using heuristic algorithms and support vector machines. <i>Safety Science</i> , <b>2012</b> , 50, 629-644	5.8	210
512	Controlling Antibody Orientation on Charged Self-Assembled Monolayers. <i>Langmuir</i> , <b>2003</b> , 19, 2859-2864		209
511	Classification of Rockburst in Underground Projects: Comparison of Ten Supervised Learning Methods. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30, 04016003	5	204
510	2D Intrinsic Ferromagnets from van der Waals Antiferromagnets. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2417-2420	16.4	196
509	Tunable Magnetism and Extraordinary Sunlight Absorbance in Indium Triphosphide Monolayer. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11125-11131	16.4	187
508	Tuning electronic and magnetic properties of graphene by surface modification. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 103108	3.4	185
507	Flexible two-dimensional Tin+1C <sub>n</sub> (n = 1, 2 and 3) and their functionalized MXenes predicted by density functional theories. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 15348-54	3.6	165
506	Coaxial Thermoplastic Elastomer-Wrapped Carbon Nanotube Fibers for Deformable and Wearable Strain Sensors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705591	15.6	163

505	Electronic structures and bonding of graphyne sheet and its BN analog. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 174701	3.9	163
504	Coarse-grained peptide modeling using a systematic multiscale approach. <i>Biophysical Journal</i> , <b>2007</b> , 92, 4289-303	2.9	160
503	Bioinspired graphene nanopores with voltage-tunable ion selectivity for Na(+) and K(+). <i>ACS Nano</i> , <b>2013</b> , 7, 10148-57	16.7	153
502	Ultrasensitive, Stretchable Strain Sensors Based on Fragmented Carbon Nanotube Papers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4835-4842	9.5	141
501	The temperature-dependent microstructure of PEDOT/PSS films: insights from morphological, mechanical and electrical analyses. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9903-9910	7.1	140
500	Experimental Study of Slabbing and Rockburst Induced by True-Triaxial Unloading and Local Dynamic Disturbance. <i>Rock Mechanics and Rock Engineering</i> , <b>2016</b> , 49, 3437-3453	5.7	138
499	New two-dimensional transition metal borides for Li ion batteries and electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23530-23535	13	132
498	Large-Gap Quantum Spin Hall State in MXenes: d-Band Topological Order in a Triangular Lattice. <i>Nano Letters</i> , <b>2016</b> , 16, 6584-6591	11.5	132
497	Molecular Simulation Studies of the Orientation and Conformation of Cytochrome c Adsorbed on Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 17418-17424	3.4	132
496	Diameter and helicity effects on static properties of water molecules confined in carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 829	3.6	131
495	Theoretical investigation on the transition-metal borides with Ta <sub>3</sub> B <sub>4</sub> -type structure: A class of hard and refractory materials. <i>Computational Materials Science</i> , <b>2011</b> , 50, 1559-1566	3.2	121
494	Comparative performance of six supervised learning methods for the development of models of hard rock pillar stability prediction. <i>Natural Hazards</i> , <b>2015</b> , 79, 291-316	3	120
493	A Comparative Study of PSO-ANN, GA-ANN, ICA-ANN, and ABC-ANN in Estimating the Heating Load of Buildings Energy Efficiency for Smart City Planning. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2630	2.6	119
492	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> , <b>2017</b> , 5, 978-984 <sup>-1</sup>	7.1	117
491	Topological insulating in GeTe/Sb <sub>2</sub> Te <sub>3</sub> phase-change superlattice. <i>Physical Review Letters</i> , <b>2012</b> , 109, 096802	7.4	117
490	Orientation of Adsorbed Antibodies on Charged Surfaces by Computer Simulation Based on a United-Residue Model. <i>Langmuir</i> , <b>2003</b> , 19, 3472-3478	4	116
489	Fabrication of Nanostructured Thermoelectric Bismuth Telluride Thick Films by Electrochemical Deposition. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3627-3633	9.6	115
488	Improving electrical conductivity in polycarbonate nanocomposites using highly conductive PEDOT/PSS coated MWCNTs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6189-200	9.5	112

487	Exfoliated graphene-supported Pt and Pt-based alloys as electrocatalysts for direct methanol fuel cells. <i>Carbon</i> , <b>2013</b> , 52, 595-604	10.4	109
486	Feasibility of Random-Forest Approach for Prediction of Ground Settlements Induced by the Construction of a Shield-Driven Tunnel. <i>International Journal of Geomechanics</i> , <b>2017</b> , 17, 04016129	3.1	101
485	Supervised Machine Learning Techniques to the Prediction of Tunnel Boring Machine Penetration Rate. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3715	2.6	100
484	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 2528-2538	7.1	100
483	Anomalous hydration shell order of Na <sup>+</sup> and K <sup>+</sup> inside carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 989-94	11.5	99
482	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. <i>Nanoscale</i> , <b>2016</b> , 8, 12294-306	7.7	95
481	Computational mining of photocatalysts for water splitting hydrogen production: two-dimensional InSe-family monolayers. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2744-2752	5.5	94
480	Pressure-induced reversible amorphization and an amorphous-amorphous transition in GeSbTe phase-change memory material. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10410-4	11.5	94
479	Random Forests and Cubist Algorithms for Predicting Shear Strengths of Rockfill Materials. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1621	2.6	91
478	Formation of large voids in the amorphous phase-change memory Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> alloy. <i>Physical Review Letters</i> , <b>2009</b> , 102, 075504	7.4	91
477	Unique melting behavior in phase-change materials for rewritable data storage. <i>Physical Review Letters</i> , <b>2007</b> , 98, 055505	7.4	84
476	Monte Carlo simulations of antibody adsorption and orientation on charged surfaces. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 1050-7	3.9	84
475	Polydopamine-based synthesis of a zeolite imidazolate framework ZIF-100 membrane with high H <sub>2</sub> /CO <sub>2</sub> selectivity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4722-4728	13	82
474	Support vector machines approach to mean particle size of rock fragmentation due to bench blasting prediction. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2012</b> , 22, 432-441	3.3	81
473	High-capacity conductive polymer microfibers as fast response wearable heaters and electromechanical actuators. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1238-1249	7.1	80
472	Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20116-20126	3.8	80
471	Peptide folding using multiscale coarse-grained models. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 13079-90	9.4	79
470	Novel 2D Transition-Metal Carbides: Ultrahigh Performance Electrocatalysts for Overall Water Splitting and Oxygen Reduction. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000570	15.6	78

469	An overview of materials issues in resistive random access memory. <i>Journal of Materiomics</i> , <b>2015</b> , 1, 285-295	2.7	77
468	Yttrium-Doped SbTe: A Promising Material for Phase-Change Memory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26126-26134	9.5	75
467	Deep neural network and whale optimization algorithm to assess flyrock induced by blasting. <i>Engineering With Computers</i> , <b>2021</b> , 37, 173-186	4.5	72
466	Molecular simulation study of temperature effect on ionic hydration in carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 1896-906	3.6	70
465	High-throughput computational screening of 137953 metal-organic frameworks for membrane separation of a CO <sub>2</sub> /N <sub>2</sub> /CH <sub>4</sub> mixture. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15904-15912	13	70
464	Utilizing gradient boosted machine for the prediction of damage to residential structures owing to blasting vibrations of open pit mining. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 3986-3997	2	69
463	Controllable Schottky barrier in GaSe/graphene heterostructure: the role of interface dipole. <i>2D Materials</i> , <b>2017</b> , 4, 015027	5.9	68
462	Effects of Annealing and Doping on Nanostructured Bismuth Telluride Thick Films. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4403-4410	9.6	68
461	Probing carbon nanotube-amino acid interactions in aqueous solution with molecular dynamics simulations. <i>Carbon</i> , <b>2014</b> , 78, 500-509	10.4	66
460	Phase Behavior of Mixed Self-Assembled Monolayers of Alkanethiols on Au(111): A Configurational-Bias Monte Carlo Simulation Study. <i>Langmuir</i> , <b>2001</b> , 17, 7566-7572	4	63
459	Deformable and wearable carbon nanotube microwire-based sensors for ultrasensitive monitoring of strain, pressure and torsion. <i>Nanoscale</i> , <b>2017</b> , 9, 604-612	7.7	62
458	Design of amine-functionalized metal-organic frameworks for CO <sub>2</sub> separation: the more amine, the better?. <i>Chemical Communications</i> , <b>2016</b> , 52, 974-7	5.8	62
457	Lignin-based carbon fibers: Carbon nanotube decoration and superior thermal stability. <i>Carbon</i> , <b>2014</b> , 80, 91-102	10.4	61
456	Lipase adsorption on different nanomaterials: a multi-scale simulation study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 840-50	3.6	60
455	Effect of composition on the formation of poly(dl-lactide) microspheres for drug delivery systems: Mesoscale simulations. <i>Chemical Engineering Journal</i> , <b>2007</b> , 131, 195-201	14.7	60
454	Tuning magnetic properties of graphene nanoribbons with topological line defects: From antiferromagnetic to ferromagnetic. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	59
453	Ti-enhanced exfoliation of V <sub>2</sub> AlC into V <sub>2</sub> C MXene for lithium-ion battery anodes. <i>Ceramics International</i> , <b>2017</b> , 43, 11450-11454	5.1	58
452	Alloy design, micromechanical and macromechanical properties of CoCrFeNiTax eutectic high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2653-2662	5.7	57

451	Novel two-dimensional molybdenum carbides as high capacity anodes for lithium/sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12145-12153	13	56
450	Adsorption of hydrophobin on different self-assembled monolayers: the role of the hydrophobic dipole and the electric dipole. <i>Langmuir</i> , <b>2014</b> , 30, 11401-11	4	56
449	Peierls distortion mediated reversible phase transition in GeTe under pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 5948-52	11.5	56
448	Unexpected elastic isotropy in a black phosphorene/TiC <sub>2</sub> van der Waals heterostructure with flexible Li-ion battery anode applications. <i>Nano Research</i> , <b>2017</b> , 10, 3136-3150	10	55
447	Laser-engraved carbon nanotube paper for instilling high sensitivity, high stretchability, and high linearity in strain sensors. <i>Nanoscale</i> , <b>2017</b> , 9, 10897-10905	7.7	55
446	Multi-planar detection optimization algorithm for the interval charging structure of large-diameter longhole blasting design based on rock fragmentation aspects. <i>Engineering Optimization</i> , <b>2018</b> , 50, 2177-2191	54	
445	Diffusion of water molecules confined in slits of rutile TiO <sub>2</sub> (1 1 0) and graphite(0 0 0 1). <i>Fluid Phase Equilibria</i> , <b>2011</b> , 302, 316-320	2.5	54
444	Microscopic origin of MXenes derived from layered MAX phases. <i>RSC Advances</i> , <b>2015</b> , 5, 25403-25408	3.7	53
443	Adsorption and Diffusion of Supercritical Carbon Dioxide in Slit Pores. <i>Langmuir</i> , <b>2000</b> , 16, 8063-8070	4	53
442	Mesoscopic coarse-grained simulations of lysozyme adsorption. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4451-60	3.4	52
441	Patterning Graphitic C-N Sheets into a Kagome Lattice for Magnetic Materials. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 259-63	6.4	52
440	Band gap engineering in huge-gap semiconductor SrZrO <sub>3</sub> for visible-light photocatalysis. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 2042-2048	6.7	51
439	Mo <sub>2</sub> B <sub>2</sub> MBene-supported single-atom catalysts as bifunctional HER/OER and OER/ORR electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 433-441	13	51
438	Estimating the Heating Load of Buildings for Smart City Planning Using a Novel Artificial Intelligence Technique PSO-XGBoost. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2714	2.6	49
437	Ice-like Water Structure in Carbon Nanotube (8,8) Induces Cationic Hydration Enhancement. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11412-11420	3.8	49
436	First-principles investigations of electronic and mechanical properties for stable Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> with van der Waals corrections. <i>Computational Materials Science</i> , <b>2014</b> , 82, 66-69	3.2	48
435	Spatiotemporal Changes of Cyanobacterial Bloom in Large Shallow Eutrophic Lake Taihu, China. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 451	5.7	47
434	Multiscale simulations of protein G B1 adsorbed on charged self-assembled monolayers. <i>Langmuir</i> , <b>2013</b> , 29, 11366-74	4	47

433	Effects of external electric fields on lysozyme adsorption by molecular dynamics simulations. <i>Biophysical Chemistry</i> , <b>2013</b> , 179, 26-34	3.5	46
432	Strain-Induced Spin Crossover in Phthalocyanine-Based Organometallic Sheets. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3109-14	6.4	46
431	Molecular Dynamics Study on Diameter Effect in Structure of Ethanol Molecules Confined in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 15677-15685	3.8	46
430	III-VI van der Waals heterostructures for sustainable energy related applications. <i>Nanoscale</i> , <b>2019</b> , 11, 6431-6444	7.7	45
429	Controlling cyanobacterial blooms by managing nutrient ratio and limitation in a large hyper-eutrophic lake: Lake Taihu, China. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 27, 80-6	6.4	44
428	Cu single atoms on Ti <sub>2</sub> CO <sub>2</sub> as a highly efficient oxygen reduction catalyst in a proton exchange membrane fuel cell. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26062-26070	13	44
427	Porous core-shell carbon fibers derived from lignin and cellulose nanofibrils. <i>Materials Letters</i> , <b>2013</b> , 109, 175-178	3.3	43
426	Computer simulations of fibronectin adsorption on hydroxyapatite surfaces. <i>RSC Advances</i> , <b>2014</b> , 4, 15759	7	41
425	Unraveling the Order and Disorder in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Nanofilms. <i>Macromolecules</i> , <b>2015</b> , 48, 5688-5696	5.5	40
424	Understanding the curvature effect of silica nanoparticles on lysozyme adsorption orientation and conformation: a mesoscopic coarse-grained simulation study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23500-7	3.6	40
423	A Combination of Feature Selection and Random Forest Techniques to Solve a Problem Related to Blast-Induced Ground Vibration. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 869	2.6	40
422	Feasibility of stochastic gradient boosting approach for predicting rockburst damage in burst-prone mines. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2016</b> , 26, 1938-1945	3.3	40
421	Carrier induced magnetic coupling transitions in phthalocyanine-based organometallic sheet. <i>Nanoscale</i> , <b>2014</b> , 6, 328-33	7.7	39
420	Molecular simulations on nanoconfined water molecule behaviors for nanoporous material applications. <i>Microfluidics and Nanofluidics</i> , <b>2013</b> , 15, 191-205	2.8	39
419	Development of a new methodology for estimating the amount of PPV in surface mines based on prediction and probabilistic models (GEP-MC). <i>International Journal of Mining, Reclamation and Environment</i> , <b>2021</b> , 35, 48-68	2.2	39
418	Effective Assessment of Blast-Induced Ground Vibration Using an Optimized Random Forest Model Based on a Harris Hawks Optimization Algorithm. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1403	2.6	38
417	Molecular Understanding of the Penetration of Functionalized Gold Nanoparticles into Asymmetric Membranes. <i>Langmuir</i> , <b>2017</b> , 33, 361-371	4	38
416	Molecular dynamics simulations of peptide adsorption on self-assembled monolayers. <i>Applied Surface Science</i> , <b>2012</b> , 258, 8153-8159	6.7	38

415	Intrinsic ferromagnetism in two-dimensional carbon structures: Triangular graphene nanoflakes linked by carbon chains. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	38
414	High thermoelectric performance of few-quintuple Sb <sub>2</sub> Te <sub>3</sub> nanofilms. <i>Nano Energy</i> , <b>2018</b> , 43, 285-290	17.1	38
413	Replica-exchange molecular dynamics simulation of basic fibroblast growth factor adsorption on hydroxyapatite. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 5843-52	3.4	37
412	Role of oxygen vacancies in the resistive switching of SrZrO <sub>3</sub> for resistance random access memory. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, 148-151	5.7	37
411	Application of a modified Ostwald ripening theory in coarsening of $\beta$ phases in Ni based single crystal superalloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 632, 558-562	5.7	37
410	Effect of water content on microstructures and oxygen permeation in PSiMA/PNIPAA hydrogel: a molecular simulation study. <i>Chemical Engineering Science</i> , <b>2012</b> , 78, 236-245	4.4	37
409	Selective Adsorption of Light Alkanes on a Highly Robust Indium Based Metal-Organic Framework. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 4488-4495	3.9	36
408	Tailoring Li adsorption on graphene. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	36
407	Enhanced Hydrogen Storage on Li Functionalized BC <sub>3</sub> Nanotube. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6136-6140	3.8	36
406	Quantum spin Hall phase in Mo <sub>2</sub> M <sub>2</sub> C <sub>3</sub> O <sub>2</sub> (M = Ti, Zr, Hf) MXenes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 11524-11529	7.1	36
405	Strengthening mechanism of aluminum on elastic properties of NbVTiZr high-entropy alloys. <i>Intermetallics</i> , <b>2018</b> , 92, 7-14	3.5	35
404	Pressure-induced topological insulating behavior in the ternary chalcogenide Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	35
403	Y-Doped SbTe Phase-Change Materials: Toward a Universal Memory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20672-20679	9.5	35
402	ALKEMIE: An intelligent computational platform for accelerating materials discovery and design. <i>Computational Materials Science</i> , <b>2021</b> , 186, 110064	3.2	35
401	Three-dimensional topological acoustic crystals with pseudospin-valley coupled saddle surface states. <i>Nature Communications</i> , <b>2018</b> , 9, 4555	17.4	35
400	Proposing a novel comprehensive evaluation model for the coal burst liability in underground coal mines considering uncertainty factors. <i>International Journal of Mining Science and Technology</i> , <b>2021</b> ,	7.1	35
399	MoS <sub>2</sub> /Ti <sub>2</sub> CT <sub>2</sub> (T = F, O) Heterostructures as Promising Flexible Anodes for Lithium/Sodium Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11493-11499	3.8	34
398	New gallium chalcogenides/arsenene van der Waals heterostructures promising for photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 15995-16004	6.7	34



397	Ab initio study of the structure and chemical bonding of stable Ge(3)Sb(2)Te(6). <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 1585-8	3.6	34
396	Influence of hydrogen bonds and double bonds on the alkane and alkene derivatives self-assembled monolayers on HOPG surface: STM observation and computer simulation. <i>Applied Surface Science</i> , <b>2010</b> , 256, 4647-4655	6.7	34
395	Fast crystallization of chalcogenide glass for rewritable memories. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 061913	3.1	34
394	Molecular dynamics simulations of conformation changes of HIV-1 regulatory protein on graphene. <i>Applied Surface Science</i> , <b>2016</b> , 377, 324-334	6.7	34
393	Predicting pillar stability for underground mine using Fisher discriminant analysis and SVM methods. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2011</b> , 21, 2734-2743	3.3	33
392	Origin of p-type conductivity in layered nGeTeInSb <sub>2</sub> Te <sub>3</sub> chalcogenide semiconductors. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	33
391	Anisotropic Motion of Electroactive Papers Coated with PEDOT/PSS. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 671-675	3.9	33
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