

Huafeng Dong

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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.

62

papers

1,113

citations

17

h-index

32

g-index

71

ext. papers

1,477

ext. citations

5.5

avg, IF

4.66

L-index

#	Paper	IF	Citations
62	Phagraphene: A Low-Energy Graphene Allotrope Composed of 5-6-7 Carbon Rings with Distorted Dirac Cones. <i>Nano Letters</i> , 2015 , 15, 6182-6	11.5	325
61	Synergistically Tuning Electronic Structure of Porous EMo ₂ C Spheres by Co Doping and Mo-Vacancies Defect Engineering for Optimizing Hydrogen Evolution Reaction Activity. <i>Advanced Functional Materials</i> , 2020 , 30, 2000561	15.6	68
60	The phase diagram and hardness of carbon nitrides. <i>Scientific Reports</i> , 2015 , 5, 9870	4.9	66
59	Improving the optical absorption of BiFeO ₃ for photovoltaic applications via uniaxial compression or biaxial tension. <i>Applied Physics Letters</i> , 2013 , 102, 072905	3.4	44
58	New Tungsten Borides, Their Stability and Outstanding Mechanical Properties. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3470-3477	6.4	40
57	Novel superhard B-C-O phases predicted from first principles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1859-63	3.6	36
56	Elastic properties of tetragonal BiFeO ₃ from first-principles calculations. <i>Applied Physics Letters</i> , 2013 , 102, 182905	3.4	36
55	Nanotwinned Boron Suboxide (B ₆ O): New Ground State of B ₆ O. <i>Nano Letters</i> , 2016 , 16, 4236-42	11.5	35
54	Pressure-induced novel compounds in the Hf-O system from first-principles calculations. <i>Physical Review B</i> , 2015 , 92,	3.3	31
53	Trivalent Chromium Ions Doped Fluorides with Both Broad Emission Bandwidth and Excellent Luminescence Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18274-18282	9.5	30
52	Synthesis of Ultra-incompressible sp ³ -Hybridized Carbon Nitride with 1:1 Stoichiometry. <i>Chemistry of Materials</i> , 2016 , 28, 6925-6933	9.6	29
51	Prediction of a new ground state of superhard compound B ₆ O at ambient conditions. <i>Scientific Reports</i> , 2016 , 6, 31288	4.9	26
50	Revealing cooperative Li-ion migration in Li _{1+x} Al _x Ti _{2-2x} (PO ₄) ₃ solid state electrolytes with high Al doping. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 342-348	13	24
49	First-principles study on strontium titanate for visible light photocatalysis. <i>Chemical Physics Letters</i> , 2013 , 555, 141-144	2.5	23
48	Trap Energy Upconversion-Like Near-Infrared to Near-Infrared Light Rejuvenateable Persistent Luminescence. <i>Advanced Materials</i> , 2021 , 33, e2008722	24	23
47	Role of defects in enhanced Fermi level pinning at interfaces between metals and transition metal dichalcogenides. <i>Physical Review B</i> , 2017 , 96,	3.3	20
46	Unexpected stable phases of tungsten borides. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24665-24670	7.0	20

45	Effects of asymmetrical rotated rectangular basis on the acoustic band gap in two-dimensional acoustic crystals: the bands are twisted. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 105404	3	16
44	Superhard conductive orthorhombic carbon polymorphs. <i>Carbon</i> , 2020 , 158, 546-552	10.4	16
43	Ratiometric optical thermometer with high sensitivity based on dual far-red emission of Cr ³⁺ in Sr ₂ MgAl ₂₂ O ₃₆ . <i>Ceramics International</i> , 2020 , 46, 5008-5014	5.1	16
42	Optical anisotropy and blue-shift phenomenon in tetragonal BiFeO ₃ . <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 135102	3	15
41	Elastic properties of VO ₂ from first-principles calculation. <i>Solid State Communications</i> , 2013 , 167, 1-4	1.6	14
40	Transition-metal-element dependence of ideal shear strength and elastic behaviors of δ -Ni ₃ Al: ab initio study to guide rational alloy design. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 1260-1266	5.7	13
39	Unveiling hot carrier relaxation and carrier transport mechanisms in quasi-two-dimensional layered perovskites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25402-25410	13	13
38	Boron oxides under pressure: Prediction of the hardest oxides. <i>Physical Review B</i> , 2018 , 98,	3.3	13
37	First-principles investigation of Zr-O compounds, their crystal structures, and mechanical properties. <i>Journal of Applied Physics</i> , 2017 , 121, 155104	2.5	11
36	Understanding the cyan-emitting phosphor RbNa(Li ₃ SiO ₄) ₂ : Eu ²⁺ by providing Rb ion vacancies. <i>Journal of Alloys and Compounds</i> , 2020 , 837, 155084	5.7	9
35	Adsorption mechanism of typical VOCs on pristine and Al-modified MnO ₂ monolayer. <i>Applied Surface Science</i> , 2021 , 539, 148164	6.7	9
34	Toward temperature-dependent Bi ³⁺ -related tunable emission in the YVO ₄ :Bi ³⁺ phosphor. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3488-3497	3.8	8
33	Synthesis of submillimeter Sn _{1-x} Se _x S ₂ (0 Journal of Materials Chemistry C, 2018 , 6, 4985-4993	7.1	7
32	Na Replaces Rb towards High-Performance Narrow-Band Green Phosphors for Backlight Display Applications. <i>Advanced Optical Materials</i> , 2021 , 9, 2100465	8.1	7
31	Novel magnesium borides and their superconductivity. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14486-14494	3.6	6
30	Mo-Doped SnO Nanoparticles Embedded in Ultrathin Graphite Nanosheets as a High-Reversible-Capacity, Superior-Rate, and Long-Cycle-Life Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , 2020 , 36, 9276-9283	4	6
29	High-temperature superconductivity in the Ti-H system at high pressures. <i>Physical Review B</i> , 2020 , 101,	3.3	6
28	Novel (1 \times 1)-reconstructions and native defects of TiO ₂ anatase (101) surface. <i>Applied Surface Science</i> , 2017 , 405, 205-208	6.7	5

27	Prediction of new ZnS/CaS alloys with anomalous electronic properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1246-1254	7.1	5
26	Deep insights into interface engineering by buffer layer for efficient perovskite solar cells: a first-principles study. <i>Science China Materials</i> , 2020 , 63, 1588-1596	7.1	3
25	Compressive behavior and elastic properties of Ni-based γ -Ti ternary model superalloys: First-principles calculations and rule of mixtures predications. <i>Journal of Alloys and Compounds</i> , 2020 , 839, 155661	5.7	3
24	Na-vacancies-induced magnetism in Na_xMnO_2 . <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 468, 164-167	2.8	3
23	Optical characteristic study of monolayer VS ₂ based on first-principles calculations. <i>Solid State Communications</i> , 2017 , 266, 26-29	1.6	3
22	Exfoliated Graphite Nanosheets Coating on Nano-grained SnO/LiTiO as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , 2020 , 36, 14666-14675	4	3
21	Vacancies inducing electronic and optical properties in 2D ZnO:Be/Mg. <i>Physica B: Condensed Matter</i> , 2019 , 555, 47-52	2.8	3
20	The design of dual-switch fluorescence intensity ratio thermometry with high sensitivity and thermochromism based on a combination strategy of intervalence charge transfer and up-conversion fluorescence thermal enhancement. <i>Dalton Transactions</i> , 2021 , 50, 9298-9309	4.3	3
19	A high-density nickel-cobalt alloy embedded in nitrogen-doped carbon nanosheets for the hydrogen evolution reaction.. <i>Nanoscale</i> , 2022 ,	7.7	3
18	Crystal and band structures of ZnS, MgS, and ZnS-MgS alloys. <i>Journal of Applied Physics</i> , 2017 , 121, 235705	5	2
17	Photoluminescence properties of Sr ₂ MgSi ₂ O ₇ :Pb ²⁺ and tunable emission from UVB to UVC based on ion substitution. <i>Journal of Luminescence</i> , 2020 , 225, 117353	3.8	2
16	A first principles study of p-type doping in two dimensional GaN. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20901-20908	3.6	2
15	Factors affecting the negative Poisson's ratio of black phosphorus and black arsenic: electronic effects. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3441-3446	3.6	2
14	Orbital localization induced magnetization in nonmetal-doped phosphorene. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 155001	3	1
13	Ferroelectricity and Elasticity of Rhombohedral BiFeO ₃ Under Uniaxial Stress. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700431	2.5	1
12	SiC siligraphene: a novel SiC allotrope with wide tunable direct band gap and strong anisotropy. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 225102	3	1
11	Pt/Au surface adsorption on the ZnO surface: A first-principles study. <i>Solid State Communications</i> , 2021 , 327, 114204	1.6	1
10	Persistent-Luminescence Phosphors: Trap Energy Upconversion-Like Near-Infrared to Near-Infrared Light Rejuvenateable Persistent Luminescence (Adv. Mater. 15/2021). <i>Advanced Materials</i> , 2021 , 33, 2170118	24	1

9	Two-dimensional phosphorus polymorph possessing both wide band gap and strong anisotropy. <i>Solid State Communications</i> , 2021 , 114540	1.6	1
8	Pressure-Induced High-Energy-Density BeN ₄ Materials with Nitrogen Chains: First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25376-25382	3.8	0
7	Phase Transition and Behaviors of N≡N Bonds in Group-IVB Transition-Metal Pernitrides: First-Principles Calculations under High Pressures. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11555-11566	3.8	0
6	Two-dimensional arsenene polymorph beyond the auxetic foam: high mechanical sensitivity and large, negative NPR. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3837-3843	3.6	0
5	K replaces Rb towards cyan to red ultra-wideband perovskite-type phosphors for full-spectrum lighting. <i>Optical Materials</i> , 2022 , 127, 112246	3.3	0
4	The tunable bandgap of phosphorus-arsenic alloys for mid-and long-infrared regime photodetectors. <i>Materials Science in Semiconductor Processing</i> , 2022 , 144, 106552	4.3	0
3	High hardness metal compounds: Prediction of Re ₃ C under pressure. <i>Applied Physics Letters</i> , 2021 , 119, 221902	3.4	
2	Rhenium carbides phase diagram under pressure and explaining why WC-type ReC does not exist. <i>Journal of Applied Physics</i> , 2022 , 131, 165102	2.5	
1	Graphdiyne@MoS ₂ /WS ₂ heterostructures for infrared and visible photodetectors: A first-principles study. <i>Computational Materials Science</i> , 2022 , 210, 111459	3.2	