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107 papers	6,067 citations	34 h-index	77 g-index
119 ext. papers	6,992 ext. citations	10 avg, IF	5.6 L-index

#	Paper	IF	Citations
107	Spongy Graphene as a Highly Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>Advanced Functional Materials</i> , 2012 , 22, 4421-4425	15.6	833
106	Visible-Light Photocatalytic Properties of Weak Magnetic BiFeO ₃ Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 2889-2892	24	745
105	Real-time observation on dynamic growth/dissolution of conductive filaments in oxide-electrolyte-based ReRAM. <i>Advanced Materials</i> , 2012 , 24, 1844-9	24	443
104	Ultrahigh humidity sensitivity of graphene oxide. <i>Scientific Reports</i> , 2013 , 3, 2714	4.9	427
103	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 2034-2042	11.5	306
102	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. <i>Nano Letters</i> , 2016 , 16, 7030-7036	11.5	239
101	Low temperature casting of graphene with high compressive strength. <i>Advanced Materials</i> , 2012 , 24, 5124-9, 5123	24	179
100	Facile synthesis of N-doped carbon-coated Li ₄ Ti ₅ O ₁₂ microspheres using polydopamine as a carbon source for high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7270	13	158
99	Graphene oxide as high-performance dielectric materials for capacitive pressure sensors. <i>Carbon</i> , 2017 , 114, 209-216	10.4	142
98	Large-range control of the microstructures and properties of three-dimensional porous graphene. <i>Scientific Reports</i> , 2013 , 3, 2117	4.9	138
97	Room-temperature ferromagnetism and ferroelectricity in Fe-doped BaTiO ₃ . <i>Physical Review B</i> , 2009 , 79,	3.3	132
96	Resistance switching in polycrystalline BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2010 , 97, 042101	3.4	129
95	Worm-Shape Pt Nanocrystals Grown on Nitrogen-Doped Low-Defect Graphene Sheets: Highly Efficient Electrocatalysts for Methanol Oxidation Reaction. <i>Small</i> , 2017 , 13, 1603013	11	117
94	In-situ liquid cell transmission electron microscopy investigation on oriented attachment of gold nanoparticles. <i>Nature Communications</i> , 2018 , 9, 421	17.4	117
93	Highly enhanced performance of spongy graphene as an oil sorbent. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1652-1656	13	107
92	Nonvolatile resistive switching in metal/La-doped BiFeO ₃ /Pt sandwiches. <i>Nanotechnology</i> , 2010 , 21, 425202	3.4	94
91	Spectroscopic Signatures of AAPand AB Stacking of Chemical Vapor Deposited Bilayer MoS ₂ . <i>ACS Nano</i> , 2015 , 9, 12246-54	16.7	90

90	Cicada slough-derived heteroatom incorporated porous carbon for supercapacitor: Ultra-high gravimetric capacitance. <i>Carbon</i> , 2019 , 143, 309-317	10.4	85
89	Ni-Co Selenide Nanosheet/3D Graphene/Nickel Foam Binder-Free Electrode for High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7946-7953	9.5	80
88	The observation of square ice in graphene questioned. <i>Nature</i> , 2015 , 528, E1-2	50.4	80
87	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. <i>Nano-Micro Letters</i> , 2011 , 3, 51-55	19.5	70
86	Alloying boosting superior sodium storage performance in nanoporous tin-antimony alloy anode for sodium ion batteries. <i>Nano Energy</i> , 2018 , 54, 349-359	17.1	57
85	Tunable electroluminescence in planar graphene/SiO(2) memristors. <i>Advanced Materials</i> , 2013 , 25, 5593-4	24	56
84	Dual phase enhanced superior electrochemical performance of nanoporous bismuth-tin alloy anodes for magnesium-ion batteries. <i>Energy Storage Materials</i> , 2018 , 14, 351-360	19.4	48
83	Nonvolatile memory devices with Cu ₂ S and Cu-Pc bilayered films. <i>Applied Physics Letters</i> , 2007 , 91, 073511	3.4	47
82	Microscopic bimetallic actuator based on a bilayer of graphene and graphene oxide. <i>Nanoscale</i> , 2013 , 5, 9123-8	7.7	43
81	Microstructure dependence of leakage and resistive switching behaviours in Ce-doped BiFeO ₃ thin films. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 415104	3	40
80	Electric Strain in Dual Metal Janus Nanosheets Induces Structural Phase Transition for Efficient Hydrogen Evolution. <i>Joule</i> , 2019 , 3, 2955-2967	27.8	39
79	Size-dependent evolution of graphene nanopores under thermal excitation. <i>Small</i> , 2012 , 8, 3422-6	11	38
78	Unsupported single-atom-thick copper oxide monolayers. <i>2D Materials</i> , 2017 , 4, 011001	5.9	37
77	The kinetics and mechanism of room-temperature microstructural evolution in electroplated copper foils. <i>Scripta Materialia</i> , 2008 , 58, 65-68	5.6	37
76	A nanoporous PtCuTi alloy with a low Pt content and greatly enhanced electrocatalytic performance towards methanol oxidation and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14657-14668	13	35
75	Nanoporous Iridium-Based Alloy Nanowires as Highly Efficient Electrocatalysts Toward Acidic Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39728-39736	9.5	34
74	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO ₂ nanotubes as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20651-20657	13	34
73	Nitrogen-doped microporous carbon derived from a biomass waste-metasequoia cone for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 163-170	5.7	31

72	Resistive switching devices based on nanocrystalline solid electrolyte (AgI) _{0.5} (AgPO ₃) _{0.5} . <i>Applied Physics Letters</i> , 2007 , 91, 243513	3.4	30
71	Eutectic-directed self-templating synthesis of PtNi nanoporous nanowires with superior electrocatalytic performance towards the oxygen reduction reaction: experiment and DFT calculation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23651-23661	13	28
70	A Highly Skin-Conformal and Biodegradable Graphene-Based Strain Sensor. <i>Small Methods</i> , 2018 , 2, 1700374	13.7	28
69	Composition- and size-modulated porous bismuth-tin biphasic alloys as anodes for advanced magnesium ion batteries. <i>Nanoscale</i> , 2019 , 11, 15279-15288	7.7	26
68	Electrically driven cation exchange for in situ fabrication of individual nanostructures. <i>Nature Communications</i> , 2017 , 8, 14889	17.4	25
67	Self-Assembled Framework Formed During Lithiation of SnS Nanoplates Revealed by in Situ Electron Microscopy. <i>Accounts of Chemical Research</i> , 2017 , 50, 1513-1520	24.3	25
66	Electrical field induced precipitation reaction and percolation in Ag ₃₀ Ge ₁₇ Se ₅₃ amorphous electrolyte films. <i>Applied Physics Letters</i> , 2009 , 94, 162112	3.4	25
65	In Situ Repair of 2D Chalcogenides under Electron Beam Irradiation. <i>Advanced Materials</i> , 2018 , 30, e170594	24.4	24
64	A general and facile method for preparation of large-scale reduced graphene oxide films with controlled structures. <i>Carbon</i> , 2019 , 143, 162-171	10.4	24
63	Controllable atomic-scale sculpting and deposition of carbon nanostructures on graphene. <i>Small</i> , 2014 , 10, 1724-8	11	22
62	Preparation of aligned Ca ₃ Co ₂ O ₆ nanorods and their steplike magnetization. <i>Applied Physics Letters</i> , 2007 , 91, 042505	3.4	21
61	Creating the Smallest BN Nanotube from Bilayer h-BN. <i>Advanced Functional Materials</i> , 2017 , 27, 1603897	15.6	20
60	NaTi ₂ (PO ₄) ₃ hollow nanoparticles encapsulated in carbon nanofibers as novel anodes for flexible aqueous rechargeable sodium-ion batteries. <i>Nano Energy</i> , 2021 , 82, 105764	17.1	20
59	Hierarchically porous nickel-titanium-niobium-aluminum alloys with tunable compositions and electrocatalytic activities towards the oxygen/hydrogen evolution reaction in acid electrolyte. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6245-6255	13	19
58	Magnetic properties of Co ₃ O ₄ nanoparticles on graphene substrate. <i>Journal of Alloys and Compounds</i> , 2017 , 720, 345-351	5.7	18
57	Enhancement of plasticity for FeCoBSiNb bulk metallic glass with superhigh strength through cryogenic thermal cycling. <i>Scripta Materialia</i> , 2020 , 187, 13-18	5.6	17
56	Synergistic effects between polyvinylpyrrolidone and oxygen vacancies on improving the oxidase-mimetic activity of flower-like CeO nanozymes. <i>Nanoscale</i> , 2020 , 12, 19104-19111	7.7	17
55	Relations of the characteristic temperatures and fragility parameters in glass-forming metallic system. <i>Physica B: Condensed Matter</i> , 2004 , 349, 327-332	2.8	16

54	Advanced Multifunctional Aqueous Rechargeable Batteries Design: From Materials and Devices to Systems. <i>Advanced Materials</i> , 2021 , e2104327	24	15
53	Ductile Co-based bulk metallic glass with superhigh strength and excellent soft magnetic properties induced by modulation of structural heterogeneity. <i>Materialia</i> , 2020 , 9, 100561	3.2	15
52	An in situ constructed topological rich vacancy-defect nitrogen-doped nanocarbon as a highly-effective metal-free oxygen catalyst for LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21918-21926	13	14
51	Self-supporting, eutectic-like, nanoporous biphasic bismuth-tin film for high-performance magnesium storage. <i>Nano Research</i> , 2019 , 12, 801-808	10	14
50	Resistive Switching: Real-Time Observation on Dynamic Growth/Dissolution of Conductive Filaments in Oxide-Electrolyte-Based ReRAM (Adv. Mater. 14/2012). <i>Advanced Materials</i> , 2012 , 24, 1774-1774	14	14
49	High-performance Cu nanoparticles/three-dimensional graphene/Ni foam hybrid for catalytic and sensing applications. <i>Nanotechnology</i> , 2018 , 29, 145703	3.4	13
48	Electron Beam Etching of CaO Crystals Observed Atom by Atom. <i>Nano Letters</i> , 2017 , 17, 5119-5125	11.5	13
47	The chemically driven phase transformation in a memristive abacus capable of calculating decimal fractions. <i>Scientific Reports</i> , 2013 , 3, 1230	4.9	13
46	Response to "comment on real-time observation on dynamic growth/dissolution of conductive filaments in oxide-electrolyte-based ReRAM". <i>Advanced Materials</i> , 2013 , 25, 165-7	24	13
45	An investigation into ultra-thin pseudobinary oxide (TiO ₂) _x (Al ₂ O ₃) _{1-x} films as high-k gate dielectrics. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 90, 379-384	2.6	13
44	Precisely monitoring and tailoring 2D nanostructures at the atomic scale. <i>APL Materials</i> , 2019 , 7, 050901	5.7	12
43	Investment casting of carbon tubular structures. <i>Carbon</i> , 2012 , 50, 2845-2852	10.4	12
42	Hierarchically Structured Black Gold Film with Ultrahigh Porosity for Solar Steam Generation.. <i>Advanced Materials</i> , 2022 , e2200108	24	12
41	2D Nanovaristors at Grain Boundaries Account for Memristive Switching in Polycrystalline BiFeO ₃ . <i>Advanced Electronic Materials</i> , 2015 , 1, 1500019	6.4	10
40	A novel FeNi-based bulk metallic glass with high notch toughness over 70 MPa m ^{1/2} combined with excellent soft magnetic properties. <i>Materials and Design</i> , 2020 , 191, 108597	8.1	10
39	The thermal stability and electrical properties of LaErO ₃ films as high-k gate dielectrics. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 235105	3	10
38	Medium-range order and crystallization in amorphous AlNiBr alloys. <i>Materials Letters</i> , 2004 , 58, 2559-2563	9.3	10
37	Studies of two distinct types of (Ba,Sr)TiO ₃ /Pt interfaces. <i>Applied Physics Letters</i> , 2008 , 92, 102906	3.4	9

- 36 Spring-Like Pseudoelectroelasticity of Monocrystalline CuS Nanowire. *Nano Letters*, **2018**, 18, 5070-5077, 11.5 9
- 35 Atomically dispersed metal sites anchored in N-doped carbon nanosheets with enhanced Li storage performance. *Materials Chemistry Frontiers*, **2020**, 4, 2157-2167 7.8 8
- 34 Characterization of RbAg₄I₅ films prepared by pulsed laser deposition. *Journal Physics D: Applied Physics*, **2008**, 41, 115304 3 8
- 33 Generality of abnormal viscosity drop on cooling of CuZr alloy melts and its structural origin. *Acta Materialia*, **2020**, 196, 690-703 8.4 8
- 32 A plastic FeNi-based bulk metallic glass and its deformation behavior. *Journal of Materials Science and Technology*, **2021**, 76, 20-32 9.1 7
- 31 Liquid dynamics and glass formation of Gd₅₅Co₂₀Al₂₅ metallic glass with minor Si addition. *Journal of Materials Science and Technology*, **2021**, 77, 28-37 9.1 7
- 30 Electron-beam induced phase transformation in EAg₂Se thin films. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 135-138 1.6 6
- 29 The effect of Si surface nitridation on the interfacial structure and electrical properties of (La₂O₃)_{0.5}(SiO₂)_{0.5} high-k gate dielectric films. *Applied Surface Science*, **2009**, 256, 90-95 6.7 6
- 28 Interpretation of texture changes during self-annealing of electroplated copper. *Microelectronic Engineering*, **2010**, 87, 2488-2494 2.5 6
- 27 In situ observation of atomic-scale stability limit of Cu nanoparticles. *Materials Today Nano*, **2018**, 4, 32-37, 3.7 6
- 26 Effect of NH₃ and N₂ annealing on the interfacial and electrical characteristics of La₂O₃ films grown on fully depleted SiGe-on-insulator substrates. *Journal Physics D: Applied Physics*, **2009**, 42, 015306 3 5
- 25 The α -oriented growth of Cu₂S films and its switching properties. *Journal of Electroceramics*, **2009**, 22, 87-90 1.5 5
- 24 <italic>In-situ</italic> study of electron irradiation on two-dimensional layered materials. *Chinese Science Bulletin*, **2017**, 62, 2919-2930 2.9 5
- 23 Effect of the addition of Al-Ti-C master alloy on the microstructure and microhardness of a cast Al-10Mg alloy. *International Journal of Minerals, Metallurgy, and Materials*, **2006**, 13, 149-153 4
- 22 Efficient rejuvenation of heterogeneous {[(Fe_{0.5}Co_{0.5})_{0.75}B_{0.2}Si_{0.05}]₉₆Nb₄}_{99.9}Cu_{0.1} bulk metallic glass upon cryogenic cycling treatment. *Journal of Materials Science and Technology*, **2022**, 97, 20-28 9.1 4
- 21 A facile strategy for rapid preparation of graphene spongy balls. *Scientific Reports*, **2016**, 6, 32746 4.9 3
- 20 Electrical hysteresis of the Ti_{0.25}Al_{0.75}O_x dielectric films after high-temperature treatment. *Applied Physics Letters*, **2008**, 92, 132912 3.4 3
- 19 Conductance switching effect in the Cu/Cu_{0.76}Si_{0.14}/Pt structure. *Journal Physics D: Applied Physics*, **2007**, 40, 3702-3706 3 3

18	Dissociation of super-dislocations and the SISF energy in TiAl based alloy with Nb-doping, as studied by HRTEM. <i>Journal of Materials Science</i> , 2006 , 41, 4695-4697	4.3	3
17	Heterogeneous GdTbDyCoAl high-entropy alloy with distinctive magnetocaloric effect induced by hydrogenation. <i>Journal of Materials Science and Technology</i> , 2021 , 109, 147-147	9.1	3
16	Effects of minor Si addition on structural heterogeneity and glass formation of GdDyErCoAl high-entropy bulk metallic glass. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 378-391	5.5	3
15	A surface transition of nanoparticle-decorated graphene films from water-adhesive to water-repellent. <i>Nanoscale</i> , 2018 , 10, 17015-17020	7.7	3
14	Wearable multimode sensor with a seamless integrated structure for recognition of different joint motion states with the assistance of a deep learning algorithm.. <i>Microsystems and Nanoengineering</i> , 2022 , 8, 24	7.7	3
13	Low Temperature Casting of Graphene with High Compressive Strength (Adv. Mater. 37/2012). <i>Advanced Materials</i> , 2012 , 24, 5123-5123	24	2
12	Constructing fibril-in-tube structures in ultrathin CeO ₂ -based nanofibers as the ideal support for stabilizing Pt nanoparticles. <i>Materials Today Chemistry</i> , 2020 , 17, 100333	6.2	2
11	Sub-4 nm Nanodiamonds from Graphene-Oxide and Nitrated Polycyclic Aromatic Hydrocarbons at 423 K. <i>ACS Nano</i> , 2021 ,	16.7	2
10	Multifunctional, Light-Weight Wearable Sensor Based on 3D Porous Polyurethane Sponge Coated with MXene and Carbon Nanotubes Composites. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101592	4.6	2
9	Formation of Single-atom-thick Copper Oxide Monolayers. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1684-1685	16.5	1
8	Tailoring Bi ₂ Te ₃ edge with semiconductor and metal properties under electron beam irradiation. <i>Nano Research</i> ,1	10	1
7	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide 2011 , 3, 51		1
6	Combining in-situ TEM observations and theoretical calculation for revealing the thermal stability of CeO ₂ nanoflowers. <i>Nano Research</i> ,1	10	1
5	Eutectic-derived high-entropy nanoporous nanowires for efficient and stable water-to-hydrogen conversion. <i>Nano Research</i> ,1	10	1
4	Mechanical Failure Mechanism of Silicon-Based Composite Anodes under Overdischarging Conditions Based on Finite Element Analysis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34157-34167	9.5	0
3	Strain Sensor with Enhanced Sensitivity for Wearable Electronics Using an Over-Balanced Planar Elastomer. <i>Macromolecular Materials and Engineering</i> ,2100576	3.9	0
2	Electrochemical reaction in memristor devices in a set state. <i>AIP Advances</i> , 2021 , 11, 015302	1.5	0
1	Microstructure selection map for rapidly solidified Al-rich AlBr alloys. <i>International Journal of Materials Research</i> , 2003 , 94, 903-907		

