

Jun Lou

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.

347
papers

36,019
citations

89
h-index

185
g-index

365
ext. papers

41,216
ext. citations

11
avg, IF

7.31
L-index

#	Paper	IF	Citations
347	Strong Edge Stress in Molecularly Thin Organic-Inorganic Hybrid Ruddlesden-Popper Perovskites and Modulations of Their Edge Electronic Properties.. <i>ACS Nano</i> , 2022 ,	16.7	1
346	3D-printed silica with nanoscale resolution. <i>Nature Materials</i> , 2021 , 20, 1506-1511	27	19
345	Quantitative in-situ study of strength-governed interfacial failure between h-BN and polymer-derived ceramic. <i>Acta Materialia</i> , 2021 , 210, 116832	8.4	0
344	Phosphorous-doped bimetallic sulfides embedded in heteroatom-doped carbon nanoarrays for flexible all-solid-state supercapacitors. <i>Science China Materials</i> , 2021 , 64, 2439-2453	7.1	5
343	A Molecular-Level Interface Design Enabled High-Strength and High-Toughness Carbon Nanotube Buckypaper. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100244	3.9	1
342	Intrinsic toughening and stable crack propagation in hexagonal boron nitride. <i>Nature</i> , 2021 , 594, 57-61	50.4	25
341	Selective membranes in water and wastewater treatment: Role of advanced materials. <i>Materials Today</i> , 2021 , 50, 516-516	21.8	15
340	High-Energy All-Solid-State OrganicLithium Batteries Based on Ceramic Electrolytes. <i>ACS Energy Letters</i> , 2021 , 6, 201-207	20.1	16
339	Probing interface strength in nanocomposites and hybrid nanomaterials 2021 , 209-240		0
338	Role of Biochar in Improving Sandy Soil Water Retention and Resilience to Drought. <i>Water (Switzerland)</i> , 2021 , 13, 407	3	11
337	Strong and flaw-insensitive two-dimensional covalent organic frameworks. <i>Matter</i> , 2021 , 4, 1017-1028	12.7	7
336	Microstructure engineering of solid-state composite cathode via solvent-assisted processing. <i>Joule</i> , 2021 , 5, 1845-1859	27.8	12
335	Minimizing the Water Effect in Synthesis of High-Quality Monolayer MoS ₂ Nanosheets: Implications for Electronic and Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8094-8100	5.6	1
334	Plasmon damping and charge transfer pathways in Au@MoSe ₂ nanostructures. <i>Materials Today Nano</i> , 2021 , 15, 100131	9.7	1
333	Mechanical Anisotropy in Two-Dimensional Selenium Atomic Layers. <i>Nano Letters</i> , 2021 , 21, 8043-8050	11.5	3
332	CVD growth of high-quality and large-area continuous h-BN thin films directly on stainless-steel as protective coatings. <i>Materials Today Nano</i> , 2021 , 16, 100135	9.7	1
331	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020 , 11, 2253	17.4	58

330	Remote Lightening and Ultrafast Transition: Intrinsic Modulation of Exciton Spatiotemporal Dynamics in Monolayer MoS. <i>ACS Nano</i> , 2020 , 14, 6897-6905	16.7	8
329	Strengthening the interface between individual aramid fibers and polymer at room and elevated temperatures. <i>Materials Today Communications</i> , 2020 , 24, 101254	2.5	2
328	Hydrogen bonding sewing interface.. <i>RSC Advances</i> , 2020 , 10, 17438-17443	3.7	2
327	Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. <i>Nano Energy</i> , 2020 , 72, 104657	17.1	49
326	Ag doped urchin-like γ -MnO ₂ toward efficient and bifunctional electrocatalysts for Li-O ₂ batteries. <i>Nano Research</i> , 2020 , 13, 2356-2364	10	11
325	Conversion of non-van der Waals solids to 2D transition-metal chalcogenides. <i>Nature</i> , 2020 , 577, 492-496	50.4	76
324	A Low-Cost and High-Efficiency Integrated Device toward Solar-Driven Water Splitting. <i>ACS Nano</i> , 2020 , 14, 5426-5434	16.7	14
323	Size and Crystal Orientation-Dependent Thermal Behaviors of ZnO Nanobelts. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27222-27229	3.8	1
322	Nitrogen and sulfur co-doped porous carbon fibers film for flexible symmetric all-solid-state supercapacitors. <i>Carbon</i> , 2020 , 158, 456-464	10.4	39
321	Synthesis of the hybrid CdS/Au flower-like nanomaterials and their SERS application. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127218	8.5	12
320	Enhanced plant antioxidant capacity and biodegradation of phenol by immobilizing peroxidase on amphoteric nitrogen-doped carbon dots. <i>Catalysis Communications</i> , 2020 , 134, 105847	3.2	15
319	Enhanced bioaccumulation efficiency and tolerance for Cd (II) in Arabidopsis thaliana by amphoteric nitrogen-doped carbon dots. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 190, 110108	7	12
318	Plasmonic-Induced Luminescence of MoSe ₂ Monolayers in a Scanning Tunneling Microscope. <i>ACS Photonics</i> , 2020 , 7, 3061-3070	6.3	4
317	High performance hierarchically nanostructured graphene oxide/covalent organic framework hybrid membranes for stable organic solvent nanofiltration. <i>Applied Materials Today</i> , 2020 , 20, 100791	6.6	16
316	Tunable friction of monolayer MoS ₂ by control of interfacial chemistry. <i>Extreme Mechanics Letters</i> , 2020 , 41, 100996	3.9	3
315	Lateral Monolayer MoSe -WSe p-n Heterojunctions with Giant Built-In Potentials. <i>Small</i> , 2020 , 16, e2002263	26.3	29
314	Mechanical testing of two-dimensional materials: a brief review. <i>International Journal of Smart and Nano Materials</i> , 2020 , 11, 207-246	3.6	7
313	Towards controlled synthesis of 2D crystals by chemical vapor deposition (CVD). <i>Materials Today</i> , 2020 , 40, 132-139	21.8	22

312	Perovskite-Derivative Valleytronics. <i>Advanced Materials</i> , 2020 , 32, e2004111	24	6
311	Multifunctional nanocoated membranes for high-rate electrothermal desalination of hypersaline waters. <i>Nature Nanotechnology</i> , 2020 , 15, 1025-1032	28.7	28
310	Near Degeneracy of Magnetic Phases in Two-Dimensional Chromium Telluride with Enhanced Perpendicular Magnetic Anisotropy. <i>ACS Nano</i> , 2020 , 14, 15256-15266	16.7	15
309	A Hybrid Metal-Organic Framework-Reduced Graphene Oxide Nanomaterial for Selective Removal of Chromate from Water in an Electrochemical Process. <i>Environmental Science & Technology</i> , 2020 , 54, 13322-13332	10.3	34
308	Spontaneous Emission of Plasmon-Exciton Polaritons Revealed by Ultrafast Nonradiative Decays. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000233	8.3	5
307	Uncovering topographically hidden features in 2D MoSe ₂ with correlated potential and optical nanoprobe. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	8
306	Biomolecular sensing by surface-enhanced Raman scattering of monolayer Janus transition metal dichalcogenide. <i>Nanoscale</i> , 2020 , 12, 10723-10729	7.7	13
305	Quantum plasmonic control of trions in a picocavity with monolayer WS ₂ . <i>Science Advances</i> , 2019 , 5, eaau8763	8.7	17
304	Optimal structuring of nitrogen-doped hybrid-dimensional nanocarbons for high-performance flexible solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7501-7515	13	11
303	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019 , 31, e1805778	24	40
302	Elastic and Transparent bone-like an electrochemical separator. <i>Materials Today Chemistry</i> , 2019 , 12, 132-138	13.8	3
301	Boxception: Impact Resistance Structure Using 3D Printing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900167	3.5	6
300	Self-supported multidimensional Ni ₂ P phosphide networks with holey nanosheets for high-performance all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17386-17399	13	43
299	Probing the Effect of Chemical Dopant Phase on Photoluminescence of Monolayer MoS ₂ Using in Situ Raman Microspectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15738-15743	3.8	7
298	A Critical Review on Enhancement of Photocatalytic Hydrogen Production by Molybdenum Disulfide: From Growth to Interfacial Activities. <i>Small</i> , 2019 , 15, e1900578	11	49
297	Integrated nanocomposite of LiMn ₂ O ₄ /graphene/carbon nanotubes with pseudocapacitive properties as superior cathode for aqueous hybrid capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 842, 74-81	4.1	23
296	A printed, recyclable, ultra-strong, and ultra-tough graphite structural material. <i>Materials Today</i> , 2019 , 30, 17-25	21.8	51
295	High-K dielectric sulfur-selenium alloys. <i>Science Advances</i> , 2019 , 5, eaau9785	14.3	8

294	Room-Temperature Magnetic Order in Air-Stable Ultrathin Iron Oxide. <i>Nano Letters</i> , 2019 , 19, 3777-3781	11.5	23
293	Taming Active Material-Solid Electrolyte Interfaces with Organic Cathode for All-Solid-State Batteries. <i>Joule</i> , 2019 , 3, 1349-1359	27.8	47
292	Discovering superior basal plane active two-dimensional catalysts for hydrogen evolution. <i>Materials Today</i> , 2019 , 25, 28-34	21.8	31
291	Low Contact Barrier in 2H/1T' MoTe In-Plane Heterostructure Synthesized by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12777-12785	9.5	38
290	Bio-derived ultrathin membrane for solar driven water purification. <i>Nano Energy</i> , 2019 , 60, 567-575	17.1	73
289	High Current Enabled Stable Lithium Anode for Ultralong Cycling Life of Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30793-30800	9.5	14
288	Lead-Free Double Perovskite Cs SnX : Facile Solution Synthesis and Excellent Stability. <i>Small</i> , 2019 , 15, e1901650	11	31
287	Mesoporous Mn ₂ O ₃ rods as a highly efficient catalyst for Li-O ₂ battery. <i>Journal of Power Sources</i> , 2019 , 435, 226833	8.9	14
286	Thermoelectric measurements of high-resistance Janus monolayer transition-metal dichalcogenide. <i>Review of Scientific Instruments</i> , 2019 , 90, 105110	1.7	2
285	Artificial Solid Electrolyte Interphase Coating to Reduce Lithium Trapping in Silicon Anode for High Performance Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901187	4.6	25
284	Lead-Free Perovskites: Lead-Free Double Perovskite Cs ₂ SnX ₆ : Facile Solution Synthesis and Excellent Stability (Small 39/2019). <i>Small</i> , 2019 , 15, 1970211	11	2
283	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1927-1933	7.1	3
282	Cobalt-Modulated Molybdenum-Dinitrogen Interaction in MoS for Catalyzing Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19269-19275	16.4	119
281	Defect-Engineering-Enabled High-Efficiency All-Inorganic Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1903448	24	75
280	Ultrahighly Enhanced Performance of Single Cadmium Selenide Nanobelt by Plasmonic Gold Particles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900454	1.6	3
279	Monolayer MoS Nanoribbon Transistors Fabricated by Scanning Probe Lithography. <i>Nano Letters</i> , 2019 , 19, 2092-2098	11.5	33
278	Potassium gluconate-derived N/S Co-doped carbon nanosheets as superior electrode materials for supercapacitors and sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 414, 308-316	8.9	65
277	Mechanically Assisted Self-Healing of Ultrathin Gold Nanowires. <i>Small</i> , 2018 , 14, e1704085	11	14

276	Graphene oxide based membrane intercalated by nanoparticles for high performance nanofiltration application. <i>Chemical Engineering Journal</i> , 2018 , 347, 12-18	14.7	99
275	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. <i>MRS Advances</i> , 2018 , 3, 61-66	0.7	0
274	High performance graphene oxide nanofiltration membrane prepared by electrospinning for wastewater purification. <i>Carbon</i> , 2018 , 130, 487-494	10.4	104
273	Direct Assessment of the Toxicity of Molybdenum Disulfide Atomically Thin Film and Microparticles via Cytotoxicity and Patch Testing. <i>Small</i> , 2018 , 14, e1702600	11	15
272	A fast and zero-biased photodetector based on GaTe/InSe vertical 2D p/n heterojunction. <i>2D Materials</i> , 2018 , 5, 025008	5.9	59
271	High stiffness polymer composite with tunable transparency. <i>Materials Today</i> , 2018 , 21, 475-482	21.8	20
270	Li7P3S11 solid electrolyte coating silicon for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 276, 325-332	6.7	12
269	A large-area free-standing graphene oxide multilayer membrane with high stability for nanofiltration applications. <i>Chemical Engineering Journal</i> , 2018 , 345, 536-544	14.7	102
268	New paradigm in advanced composite and nanocomposite design. <i>Reinforced Plastics</i> , 2018 , 62, 263-265	0.9	2
267	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700895	4.6	22
266	Flexible all-solid-state supercapacitors based on freestanding, binder-free carbon nanofibers@polypyrrole@graphene film. <i>Chemical Engineering Journal</i> , 2018 , 334, 184-190	14.7	86
265	Directional sensing based on flexible aligned carbon nanotube film nanocomposites. <i>Nanoscale</i> , 2018 , 10, 14938-14946	7.7	31
264	Toughening Graphene by Integrating Carbon Nanotubes. <i>ACS Nano</i> , 2018 , 12, 7901-7910	16.7	31
263	Quantum plasmonic hot-electron injection in lateral WSe ₂ /MoSe ₂ heterostructures. <i>Physical Review B</i> , 2018 , 98,	3.3	19
262	Enhanced heterogeneous activation of peroxydisulfate by S, N co-doped graphene via controlling S, N functionalization for the catalytic decolorization of dyes in water. <i>Chemosphere</i> , 2018 , 210, 120-128	8.4	15
261	Aligned-SWCNT film laminated nanocomposites: Role of the film on mechanical and electrical properties. <i>Carbon</i> , 2018 , 139, 680-687	10.4	19
260	Ultrafast probes of electron-hole transitions between two atomic layers. <i>Nature Communications</i> , 2018 , 9, 1859	17.4	23
259	Quantitative in situ fracture testing of tin oxide nanowires for lithium ion battery applications. <i>Nano Energy</i> , 2018 , 53, 277-285	17.1	15

258	Underwater adhesive using solid-liquid polymer mixes. <i>Materials Today Chemistry</i> , 2018 , 9, 149-157	6.2	16
257	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800932	4.6	4
256	Poly-albumen: Bio-derived structural polymer from polymerized egg white. <i>Materials Today Chemistry</i> , 2018 , 9, 73-79	6.2	6
255	Sandwich-Like FeCl ₃ @C as High-Performance Anode Materials for Potassium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800606	4.6	41
254	Core-shell structured carbon nanofibers yarn@polypyrrole@graphene for high performance all-solid-state fiber supercapacitors. <i>Carbon</i> , 2018 , 138, 264-270	10.4	86
253	Surface enhanced resonant Raman scattering in hybrid MoSe ₂ @Au nanostructures. <i>Optics Express</i> , 2018 , 26, 29411-29423	3.3	8
252	High-performance red phosphorus/carbon nanofibers/graphene free-standing paper anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1574-1581	13	48
251	Unzipping of twin lamella in nanotwinned nickel nanowires under flexural bending. <i>Materials Research Letters</i> , 2018 , 6, 13-21	7.4	6
250	Multiscale Geometric Design Principles Applied to 3D Printed Schwarzites. <i>Advanced Materials</i> , 2018 , 30, 1704820	24	44
249	2D heterostructure comprised of metallic 1T-MoS ₂ /Monolayer O-g-C ₃ N ₄ towards efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 379-385	21.8	176
248	Near-Field Coupled Integrable Two-Dimensional InSe Photosensor on Optical Fiber. <i>ACS Nano</i> , 2018 , 12, 12571-12577	16.7	14
247	Quaternary Alloys: Thermally Induced 2D Alloy-Heterostructure Transformation in Quaternary Alloys (Adv. Mater. 45/2018). <i>Advanced Materials</i> , 2018 , 30, 1870344	24	1
246	Ultra-Stiff Graphene Foams as Three-Dimensional Conductive Fillers for Epoxy Resin. <i>ACS Nano</i> , 2018 , 12, 11219-11228	16.7	26
245	Enhanced Cycling Performance of Li ₂ O ₂ Battery by Using a Li ₃ PO ₄ -Protected Lithium Anode in DMSO-Based Electrolyte. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5511-5517	6.1	16
244	Hierarchical layer-by-layer porous FeCo ₂ S ₄ @Ni(OH) ₂ arrays for all-solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20480-20490	13	68
243	Spatially-Resolved Photoluminescence of Monolayer MoS ₂ under Controlled Environment for Ambient Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6226-6235	5.6	10
242	Facile Fabrication of Nitrogen-Doped Porous Carbon as Superior Anode Material for Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802386	21.8	267
241	Interconnecting Bone Nanoparticles by Ovalbumin Molecules to Build a Three-Dimensional Low-Density and Tough Material. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41757-41762	9.5	6

240	Composites with carbon nanotubes and graphene: An outlook. <i>Science</i> , 2018 , 362, 547-553	33.3	396
239	High-performing and stable electricity generation by ceramic fuel cells operating in dry methane over 1000 hours. <i>Journal of Power Sources</i> , 2018 , 401, 322-328	8.9	14
238	Thermally Induced 2D Alloy-Heterostructure Transformation in Quaternary Alloys. <i>Advanced Materials</i> , 2018 , 30, e1804218	24	19
237	Laminated Object Manufacturing of 3D-Printed Laser-Induced Graphene Foams. <i>Advanced Materials</i> , 2018 , 30, e1707416	24	118
236	Prediction of Enhanced Catalytic Activity for Hydrogen Evolution Reaction in Janus Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2018 , 18, 3943-3949	11.5	180
235	Synergetic photoluminescence enhancement of monolayer MoS surface plasmon resonance and defect repair.. <i>RSC Advances</i> , 2018 , 8, 23591-23598	3.7	7
234	Impact of carbon nanotube defects on fracture mechanisms in ceramic nanocomposites. <i>Carbon</i> , 2017 , 115, 402-408	10.4	31
233	Electrospinning fabrication and in situ mechanical investigation of individual graphene nanoribbon reinforced carbon nanofiber. <i>Carbon</i> , 2017 , 114, 717-723	10.4	31
232	In situ mechanical investigation of carbon nanotube-graphene junction in three-dimensional carbon nanostructures. <i>Nanoscale</i> , 2017 , 9, 2916-2924	7.7	29
231	Opto-valleytronic imaging of atomically thin semiconductors. <i>Nature Nanotechnology</i> , 2017 , 12, 329-334	28.7	48
230	Growth of Molybdenum Carbide/Graphene Hybrids from Molybdenum Disulfide Atomic Layer Template. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600866	4.6	13
229	Two dimensional heterostructure: perfect platform for exploring interface interaction. <i>Science Bulletin</i> , 2017 , 62, 381-382	10.6	4
228	Three-Dimensional Rebar Graphene. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7376-7384	9.5	39
227	High Toughness in Ultralow Density Graphene Oxide Foam. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700030	4.30	15
226	Direct growth of MoS ₂ single crystals on polyimide substrates. <i>2D Materials</i> , 2017 , 4, 021028	5.9	27
225	High Efficiency Photocatalytic Water Splitting Using 2D Fe ₂ O ₃ /g-C ₃ N ₄ Z-Scheme Catalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700025	21.8	501
224	Structural Reinforcement through Liquid Encapsulation. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600781	14.6	6
223	Temperature-Dependent Plasmon-Exciton Interactions in Hybrid Au/MoSe ₂ Nanostructures. <i>ACS Photonics</i> , 2017 , 4, 1653-1660	6.3	38

222	High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700078	6.8	112
221	Synthesis of High-Quality Graphene and Hexagonal Boron Nitride Monolayer In-Plane Heterostructure on Cu-Ni Alloy. <i>Advanced Science</i> , 2017 , 4, 1700076	13.6	60
220	Three-Dimensional Printed Graphene Foams. <i>ACS Nano</i> , 2017 , 11, 6860-6867	16.7	133
219	Chemically interconnected light-weight 3D-carbon nanotube solid network. <i>Carbon</i> , 2017 , 119, 142-149	10.4	18
218	Synthesis of large-scale atomic-layer SnS ₂ through chemical vapor deposition. <i>Nano Research</i> , 2017 , 10, 2386-2394	10	97
217	Self-Stiffening Behavior of Reinforced Carbon Nanotubes Spheres . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600756	3.5	8
216	Enhancing Mechanical Properties of Nanocomposites Using Interconnected Carbon Nanotubes (iCNT) as Reinforcement . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600499	3.5	4
215	Role of Atomic Layer Functionalization in Building Scalable Bottom-Up Assembly of Ultra-Low Density Multifunctional Three-Dimensional Nanostructures. <i>ACS Nano</i> , 2017 , 11, 806-813	16.7	12
214	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9455-E9464	11.5	104
213	A flexible solar cell/supercapacitor integrated energy device. <i>Nano Energy</i> , 2017 , 42, 181-186	17.1	63
212	Unveiling Active Sites for the Hydrogen Evolution Reaction on Monolayer MoS ₂ . <i>Advanced Materials</i> , 2017 , 29, 1701955	24	184
211	Gold Nanoparticles and g-C ₃ N ₄ -Intercalated Graphene Oxide Membrane for Recyclable Surface Enhanced Raman Scattering. <i>Advanced Functional Materials</i> , 2017 , 27, 1701714	15.6	102
210	Nature Inspired Strategy to Enhance Mechanical Properties via Liquid Reinforcement. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700240	4.6	24
209	Self-optimizing, highly surface-active layered metal dichalcogenide catalysts for hydrogen evolution. <i>Nature Energy</i> , 2017 , 2,	62.3	240
208	Janus Monolayer Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2017 , 11, 8192-8198	16.7	584
207	Lightweight Hexagonal Boron Nitride Foam for CO Absorption. <i>ACS Nano</i> , 2017 , 11, 8944-8952	16.7	42
206	Ductile Fracture of Metallic Glass Nanolaminates. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700510	4.6	16
205	Highly Enhanced Photoluminescence of Monolayer MoS ₂ with Self-Assembled Au Nanoparticle Arrays. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700739	4.6	30

204	Toward a Mechanistic Understanding of Vertical Growth of van der Waals Stacked 2D Materials: A Multiscale Model and Experiments. <i>ACS Nano</i> , 2017 , 11, 12780-12788	16.7	58
203	Large In-Plane and Vertical Piezoelectricity in Janus Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2017 , 11, 8242-8248	16.7	348
202	Brittle Fracture of 2D MoSe. <i>Advanced Materials</i> , 2017 , 29, 1604201	24	95
201	Characterization of tin(II) sulfide defects/vacancies and correlation with their photocurrent. <i>Nano Research</i> , 2017 , 10, 218-228	10	6
200	High performance agar/graphene oxide composite aerogel for methylene blue removal. <i>Carbohydrate Polymers</i> , 2017 , 155, 345-353	10.3	188
199	The impact of core-shell nanotube structures on fracture in ceramic nanocomposites. <i>Acta Materialia</i> , 2017 , 122, 82-91	8.4	10
198	Quantification of Electron Beam Heating Effect in TEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1766-1767	6.5	2
197	Hierarchical Graphene-Based Films with Dynamic Self-Stiffening for Biomimetic Artificial Muscle. <i>Advanced Functional Materials</i> , 2016 , 26, 7003-7010	15.6	44
196	Controllable high-throughput fabrication of porous gold nanorods driven by Rayleigh instability. <i>RSC Advances</i> , 2016 , 6, 66484-66489	3.7	8
195	Ultrafast formation of interlayer hot excitons in atomically thin MoS ₂ /WS ₂ heterostructures. <i>Nature Communications</i> , 2016 , 7, 12512	17.4	240
194	Efficient hydrogen evolution in transition metal dichalcogenides via a simple one-step hydrazine reaction. <i>Nature Communications</i> , 2016 , 7, 11857	17.4	154
193	Multifunctional Polymer-Based Graphene Foams with Buckled Structure and Negative Poisson's Ratio. <i>Scientific Reports</i> , 2016 , 6, 32989	4.9	25
192	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. <i>Nano Energy</i> , 2016 , 27, 138-146	17.1	303
191	The Effect of VMoS ₃ Point Defect on the Elastic Properties of Monolayer MoS ₂ with REBO Potentials. <i>Nanoscale Research Letters</i> , 2016 , 11, 155	5	30
190	Layer Engineering of 2D Semiconductor Junctions. <i>Advanced Materials</i> , 2016 , 28, 5126-32	24	53
189	Incorporation of Nitrogen Defects for Efficient Reduction of CO ₂ via Two-Electron Pathway on Three-Dimensional Graphene Foam. <i>Nano Letters</i> , 2016 , 16, 466-70	11.5	351
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