

## List of Publications by Citations

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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.

610 papers	23,694 citations	78 h-index	117 g-index
621 ext. papers	27,343 ext. citations	6.6 avg, IF	7.22 L-index

#	Paper	IF	Citations
610	Reinforcement with graphene nanosheets in aluminum matrix composites. <i>Scripta Materialia</i> , <b>2012</b> , 66, 594-597	5.6	607
609	Fluorine-Free Synthesis of High-Purity Ti C T (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6115-6119	16.4	387
608	Bio-inspired evaporation through plasmonic film of nanoparticles at the air-water interface. <i>Small</i> , <b>2014</b> , 10, 3234-9	11	313
607	The use of flake powder metallurgy to produce carbon nanotube (CNT)/aluminum composites with a homogenous CNT distribution. <i>Carbon</i> , <b>2012</b> , 50, 1993-1998	10.4	274
606	Biomorphic mineralization: From biology to materials. <i>Progress in Materials Science</i> , <b>2009</b> , 54, 542-659	42.2	269
605	Enhanced Mechanical Properties of Graphene (Reduced Graphene Oxide)/Aluminum Composites with a Bioinspired Nanolaminated Structure. <i>Nano Letters</i> , <b>2015</b> , 15, 8077-83	11.5	261
604	"Egg-Box"-Assisted Fabrication of Porous Carbon with Small Mesopores for High-Rate Electric Double Layer Capacitors. <i>ACS Nano</i> , <b>2015</b> , 9, 11225-33	16.7	242
603	Electromagnetic wave absorption properties of porous carbon/Co nanocomposites. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 013110	3.4	241
602	Synthesis and properties of magnetic Fe <sub>3</sub> O <sub>4</sub> -activated carbon nanocomposite particles for dye removal. <i>Materials Letters</i> , <b>2008</b> , 62, 645-647	3.3	230
601	Artificial inorganic leafs for efficient photochemical hydrogen production inspired by natural photosynthesis. <i>Advanced Materials</i> , <b>2010</b> , 22, 951-6	24	216
600	Adsorption of copper ions from aqueous solution by citric acid modified soybean straw. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 300-8	12.8	204
599	Synthesis of WO <sub>3</sub> @Graphene composite for enhanced photocatalytic oxygen evolution from water. <i>RSC Advances</i> , <b>2012</b> , 2, 1356-1363	3.7	194
598	Sonochemical synthesis of TiO <sub>2</sub> nanoparticles on graphene for use as photocatalyst. <i>Ultrasonics Sonochemistry</i> , <b>2011</b> , 18, 1082-90	8.9	193
597	Bioinspired Multifunctional Paper-Based rGO Composites for Solar-Driven Clean Water Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14628-36	9.5	187
596	In situ technique for synthesizing (TiB+TiC)/Ti composites. <i>Scripta Materialia</i> , <b>1999</b> , 41, 39-46	5.6	185
595	Enhanced Light-Harvesting and Photocatalytic Properties in Morph-TiO <sub>2</sub> from Green-Leaf Biotemplates. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 45-56	15.6	184
594	Novel Photoanode Structure Templated from Butterfly Wing Scales. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 33-40	9.6	182

593	Grafting of thermo-responsive polymer inside mesoporous silica with large pore size using ATRP and investigation of its use in drug release. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 2428		179
592	Bioinspired engineering of thermal materials. <i>Advanced Materials</i> , <b>2015</b> , 27, 428-63	24	178
591	A high-performance Bi <sub>2</sub> WO <sub>6</sub> -graphene photocatalyst for visible light-induced H <sub>2</sub> and O <sub>2</sub> generation. <i>Nanoscale</i> , <b>2014</b> , 6, 2186-93	7.7	168
590	Control of three-dimensional cell adhesion by the chirality of nanofibers in hydrogels. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7789-93	16.4	161
589	Bioinspired Hierarchical Surface Structures with Tunable Wettability for Regulating Bacteria Adhesion. <i>ACS Nano</i> , <b>2015</b> , 9, 10664-72	16.7	158
588	Effects of degree of deformation on the microstructure, mechanical properties and texture of hybrid-reinforced titanium matrix composites. <i>Acta Materialia</i> , <b>2012</b> , 60, 2656-2667	8.4	157
587	Graphene-and-Copper Artificial Nacre Fabricated by a Preform Impregnation Process: Bioinspired Strategy for Strengthening-Toughening of Metal Matrix Composite. <i>ACS Nano</i> , <b>2015</b> , 9, 6934-43	16.7	155
586	N-doped porous carbon with magnetic particles formed in situ for enhanced Cr(VI) removal. <i>Water Research</i> , <b>2013</b> , 47, 4188-97	12.5	155
585	Hierarchically porous ZnO with high sensitivity and selectivity to H <sub>2</sub> S derived from biotemplates. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 136, 499-509	8.5	153
584	Aligning graphene in bulk copper: Nacre-inspired nanolaminated architecture coupled with in-situ processing for enhanced mechanical properties and high electrical conductivity. <i>Carbon</i> , <b>2017</b> , 117, 65-74	10.4	149
583	Simultaneously enhancing the strength, ductility and conductivity of copper matrix composites with graphene nanoribbons. <i>Carbon</i> , <b>2017</b> , 118, 250-260	10.4	148
582	An approach to the uniform dispersion of a high volume fraction of carbon nanotubes in aluminum powder. <i>Carbon</i> , <b>2011</b> , 49, 1965-1971	10.4	142
581	Biomimetic optical materials: Integration of nature's design for manipulation of light. <i>Progress in Materials Science</i> , <b>2013</b> , 58, 825-873	42.2	138
580	Leaf-architected 3D hierarchical artificial photosynthetic system of perovskite titanates towards CO <sub>2</sub> photoreduction into hydrocarbon fuels. <i>Scientific Reports</i> , <b>2013</b> , 3, 1667	4.9	137
579	Balanced strength and ductility in CNT/Al composites achieved by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 96, 57-66	8.4	136
578	Generalized 3D Printing of Graphene-Based Mixed-Dimensional Hybrid Aerogels. <i>ACS Nano</i> , <b>2018</b> , 12, 3502-3511	16.7	135
577	Hydrothermal synthesis of ZnO hollow spheres using spherobacterium as biotemplates. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 100, 322-327	5.3	133
576	Microstructure evolution and superelastic behavior in Ti-35Nb-2Ta-3Zr alloy processed by friction stir processing. <i>Acta Materialia</i> , <b>2017</b> , 131, 499-510	8.4	129

575	One step fabrication of C-doped BiVO <sub>4</sub> with hierarchical structures for a high-performance photocatalyst under visible light irradiation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8367	13	128
574	Biotemplated materials for sustainable energy and environment: current status and challenges. <i>ChemSusChem</i> , <b>2011</b> , 4, 1344-87	8.3	127
573	Hierarchical Porous Carbonized Lotus Seedpods for Highly Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6217-6221	9.6	126
572	Sonochemical fabrication of Fe <sub>3</sub> O <sub>4</sub> nanoparticles on reduced graphene oxide for biosensors. <i>Ultrasonics Sonochemistry</i> , <b>2013</b> , 20, 872-80	8.9	125
571	Extreme rejuvenation and softening in a bulk metallic glass. <i>Nature Communications</i> , <b>2018</b> , 9, 560	17.4	119
570	Uniform dispersion of graphene oxide in aluminum powder by direct electrostatic adsorption for fabrication of graphene/aluminum composites. <i>Nanotechnology</i> , <b>2014</b> , 25, 325601	3.4	117
569	Carbon-coated SnO <sub>2</sub> @C with hierarchically porous structures and graphite layers inside for a high-performance lithium-ion battery. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2766-2773		117
568	Novel Bacteria-Templated Sonochemical Route for the in Situ One-Step Synthesis of ZnS Hollow Nanostructures. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2144-2146	9.6	117
567	Strengthening and toughening mechanisms in graphene-Al nanolaminated composite micro-pillars. <i>Acta Materialia</i> , <b>2017</b> , 125, 98-108	8.4	114
566	Synergistic strengthening effect of graphene-carbon nanotube hybrid structure in aluminum matrix composites. <i>Carbon</i> , <b>2015</b> , 95, 419-427	10.4	112
565	Strong and ductile carbon nanotube/aluminum bulk nanolaminated composites with two-dimensional alignment of carbon nanotubes. <i>Scripta Materialia</i> , <b>2012</b> , 66, 331-334	5.6	112
564	Simple fabrication of a Fe <sub>2</sub> O <sub>3</sub> /carbon composite for use in a high-performance lithium ion battery. <i>Carbon</i> , <b>2013</b> , 52, 565-573	10.4	112
563	HREM study of TiB/Ti interfaces in a TiB-TiC in situ composite. <i>Scripta Materialia</i> , <b>2001</b> , 44, 1069-1075	5.6	109
562	High-Density Hotspots Engineered by Naturally Piled-Up Subwavelength Structures in Three-Dimensional Copper Butterfly Wing Scales for Surface-Enhanced Raman Scattering Detection. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1578-1585	15.6	103
561	Biogenic N-I-codoped TiO <sub>2</sub> photocatalyst derived from kelp for efficient dye degradation. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 172-180	35.4	103
560	Simultaneously achieving thermal insulation and rapid water transport in sugarcane stems for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9034-9039	13	102
559	Ag/diatomite for highly efficient solar vapor generation under one-sun irradiation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17817-17821	13	101
558	Versatile fabrication of intact three-dimensional metallic butterfly wing scales with hierarchical sub-micrometer structures. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 8307-11	16.4	101

557	Tailoring the Morphology of g-C <sub>3</sub> N <sub>4</sub> by Self-Assembly towards High Photocatalytic Performance. <i>ChemCatChem</i> , <b>2014</b> , 6, 3419-3425	5.2	100
556	Enhanced thermal conductivity in diamond/aluminum composites with a tungsten interface nanolayer. <i>Materials &amp; Design</i> , <b>2013</b> , 47, 160-166		100
555	Semiconductor photocatalysts for water oxidation: current status and challenges. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 6810-26	3.6	99
554	Microstructural characterization of TiB in in situ synthesized titanium matrix composites prepared by common casting technique. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 327, 240-247	5.7	98
553	Highly porous graphitic materials prepared by catalytic graphitization. <i>Carbon</i> , <b>2013</b> , 64, 132-140	10.4	92
552	In situ depositing silver nanoclusters on silk fibroin fibers supports by a novel biotemplate redox technique at room temperature. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17429-34	3.4	92
551	Bioinspired fabrication of hierarchically structured, pH-tunable photonic crystals with unique transition. <i>ACS Nano</i> , <b>2013</b> , 7, 4911-8	16.7	91
550	A flake powder metallurgy approach to Al <sub>2</sub> O <sub>3</sub> /Al biomimetic nanolaminated composites with enhanced ductility. <i>Scripta Materialia</i> , <b>2011</b> , 65, 412-415	5.6	91
549	Composite structure modeling and mechanical behavior of particle reinforced metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 597, 359-369	5.3	90
548	Butterflies: inspiration for solar cells and sunlight water-splitting catalysts. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9195	35.4	89
547	The synthesis of hierarchical porous iron oxide with wood templates. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 85, 82-88	5.3	88
546	Construction of Self-Reporting Specific Chemical Sensors with High Sensitivity. <i>Advanced Materials</i> , <b>2007</b> , 19, 4327-4332	24	87
545	Microstructure and mechanical properties of cold-rolled TiNbTaZr biomedical titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 490, 421-426	5.3	86
544	Towards strong and stiff carbon nanotube-reinforced high-strength aluminum alloy composites through a microlaminated architecture design. <i>Scripta Materialia</i> , <b>2014</b> , 75, 30-33	5.6	85
543	Fabrication of ZnO microtubes with adjustable nanopores on the walls by the templating of butterfly wing scales. <i>Nanotechnology</i> , <b>2006</b> , 17, 840-844	3.4	85
542	3D-Structured Carbonized Sunflower Heads for Improved Energy Efficiency in Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2171-2179	9.5	85
541	Biomimetic polymeric semiconductor based hybrid nanosystems for artificial photosynthesis towards solar fuels generation via CO <sub>2</sub> reduction. <i>Nano Energy</i> , <b>2016</b> , 25, 128-135	17.1	83
540	Bio-Inspired Photonic Materials: Prototypes and Structural Effect Designs for Applications in Solar Energy Manipulation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705309	15.6	82

539	Enhanced interfacial bonding and mechanical properties in CNT/Al composites fabricated by flake powder metallurgy. <i>Carbon</i> , <b>2018</b> , 130, 333-339	10.4	81
538	Butterfly wing architecture assisted CdS/Au/TiO <sub>2</sub> Z-scheme type photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 8244-8253	6.7	81
537	Lateral size effect of graphene on mechanical properties of aluminum matrix nanolaminated composites. <i>Scripta Materialia</i> , <b>2017</b> , 139, 44-48	5.6	81
536	3D Network Magnetophotonic Crystals Fabricated on Morpho Butterfly Wing Templates. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2072-2080	15.6	81
535	Super black and ultrathin amorphous carbon film inspired by anti-reflection architecture in butterfly wing. <i>Carbon</i> , <b>2011</b> , 49, 877-883	10.4	81
534	The interfacial characterization of oxidized SiC(p)/2014 Al composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 303, 46-53	5.3	81
533	Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated via Electrochemical Li Intercalation. <i>ACS Nano</i> , <b>2018</b> , 12, 308-316	16.7	80
532	Highly sensitive and rapidly responding room-temperature NO <sub>2</sub> gas sensors based on WO <sub>3</sub> nanorods/sulfonated graphene nanocomposites. <i>Nano Research</i> , <b>2018</b> , 11, 791-803	10	76
531	Leaf-inspired hierarchical porous CdS/Au/N-TiO <sub>2</sub> heterostructures for visible light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 221-228	21.8	74
530	Infrared detection based on localized modification of Morpho butterfly wings. <i>Advanced Materials</i> , <b>2015</b> , 27, 1077-82	24	74
529	Synthesis of Cu-doped WO <sub>3</sub> materials with photonic structures for high performance sensors. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9126		74
528	Bioinspired Hierarchical Tin Oxide Scaffolds for Enhanced Gas Sensing Properties. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10274-10281	3.8	73
527	Tailoring the structure and mechanical properties of graphene nanosheet/aluminum composites by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 111, 73-82	8.4	73
526	Creep rupture life of in situ synthesized (TiB+TiC)/Ti matrix composites. <i>Scripta Materialia</i> , <b>2001</b> , 44, 2449-2455	9.4	70
525	3D Microstructure-based finite element modeling of deformation and fracture of SiCp/Al composites. <i>Composites Science and Technology</i> , <b>2016</b> , 123, 1-9	8.6	69
524	Carbon Materials Reinforced Aluminum Composites: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2014</b> , 27, 775-786	2.5	68
523	Synthesis of biomorphic ZnO interwoven microfibers using eggshell membrane as the biotemplate. <i>Materials Letters</i> , <b>2007</b> , 61, 2714-2717	3.3	68
522	Fabrication of diamond/aluminum composites by vacuum hot pressing: Process optimization and thermal properties. <i>Composites Part B: Engineering</i> , <b>2013</b> , 47, 173-180	10	65

521	Poly(N,N-dimethylaminoethyl methacrylate) modification of activated carbon for copper ions removal. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 113, 784-789	4.4	65
520	Synthesis of Biomorphous Nickel Oxide from a Pinewood Template and Investigation on a Hierarchical Porous Structure. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 662-665	3.8	65
519	MXenes as emerging nanomaterials in water purification and environmental remediation.. <i>Science of the Total Environment</i> , <b>2021</b> , 811, 152280	10.2	65
518	Patterned Carbon NitrideBased Hybrid Aerogel Membranes via 3D Printing for Broadband Solar Wastewater Remediation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801121	15.6	65
517	Morphology genetic materials templated from natural species. <i>Advanced Materials</i> , <b>2015</b> , 27, 464-78	24	63
516	Strain-rate dependent deformation mechanism of graphene-Al nanolaminated composites studied using micro-pillar compression. <i>International Journal of Plasticity</i> , <b>2018</b> , 105, 128-140	7.6	63
515	Morphosynthesis of hierarchical ZnO replica using butterfly wing scales as templates. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 92, 227-233	5.3	63
514	Carbon nitride nanosheets as visible light photocatalytic initiators and crosslinkers for hydrogels with thermoresponsive turbidity. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8933-8938	13	62
513	Metal-graphene interfaces in epitaxial and bulk systems: A review. <i>Progress in Materials Science</i> , <b>2020</b> , 110, 100652	42.2	62
512	Microstructure and mechanical properties of investment casted titanium matrix composites with B4C additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 366-373	5.3	62
511	Controlled fabrication of Si nanoparticles on graphene sheets for Li-ion batteries. <i>RSC Advances</i> , <b>2013</b> , 3, 6141	3.7	62
510	High permittivity and microwave absorption of porous graphitic carbons encapsulating Fe nanoparticles. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1632-1636	8.6	61
509	Ultrahigh Electrical Conductivity of Graphene Embedded in Metals. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806792	15.6	61
508	Interface-induced strain hardening of graphene nanosheet/aluminum composites. <i>Carbon</i> , <b>2019</b> , 146, 17-27	10.4	60
507	Controllable synthesis and gas response of biomorphic SnO2 with architecture hierarchy of butterfly wings. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 39-45	8.5	60
506	The synthesis and microstructure of morph-genetic TiC/C ceramics. <i>Carbon</i> , <b>2004</b> , 42, 177-182	10.4	60
505	Inspiration from butterfly and moth wing scales: Characterization, modeling, and fabrication. <i>Progress in Materials Science</i> , <b>2015</b> , 68, 67-96	42.2	59
504	A predictive model for interfacial thermal conductance in surface metallized diamond aluminum matrix composites. <i>Materials &amp; Design</i> , <b>2014</b> , 55, 257-262		59



503	Biomorphic porous graphitic carbon for electromagnetic interference shielding. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21183		59
502	Tunable photonic polyelectrolyte colorimetric sensing for anions, cations and zwitterions. <i>Advanced Materials</i> , <b>2010</b> , 22, 5043-7	24	59
501	Biomorphic Al <sub>2</sub> O <sub>3</sub> fibers synthesized using cotton as bio-templates. <i>Scripta Materialia</i> , <b>2005</b> , 53, 893-897	3.6	59
500	Control of drug release through the in situ assembly of stimuli-responsive ordered mesoporous silica with magnetic particles. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2478-83	3.2	58
499	Biomimetic zinc oxide replica with structural color using butterfly ( <i>Ideopsis similis</i> ) wings as templates. <i>Bioinspiration and Biomimetics</i> , <b>2006</b> , 1, 89-95	2.6	58
498	Effect of volume fraction of reinforcement on room temperature tensile property of in situ (TiB+TiC)/Ti matrix composites. <i>Materials &amp; Design</i> , <b>2006</b> , 27, 494-498		58
497	Cellulose Nanocrystals/Polyacrylamide Composites of High Sensitivity and Cycling Performance To Gauge Humidity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18231-18237	9.5	57
496	Fabrication of BiVO <sub>4</sub> nanoplates with active facets on graphene sheets for visible-light photocatalyst. <i>Carbon</i> , <b>2015</b> , 94, 599-606	10.4	57
495	Challenges and Perspectives in Designing Artificial Photosynthetic Systems. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9870-85	4.8	57
494	Graphite film/aluminum laminate composites with ultrahigh thermal conductivity for thermal management applications. <i>Materials and Design</i> , <b>2016</b> , 90, 508-515	8.1	57
493	C <sub>2</sub> -symmetric benzene-based hydrogels with unique layered structures for controllable organic dye adsorption. <i>Soft Matter</i> , <b>2012</b> , 8, 3231	3.6	57
492	Strong and ductile particulate reinforced ultrafine-grained metallic composites fabricated by flake powder metallurgy. <i>Scripta Materialia</i> , <b>2013</b> , 68, 555-558	5.6	57
491	Influence of cold deformation on martensite transformation and mechanical properties of Ti <sub>40</sub> Ni <sub>40</sub> Zr alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 469, 512-518	5.7	56
490	Full-color CO <sub>2</sub> gas sensing by an inverse opal photonic hydrogel. <i>Chemical Communications</i> , <b>2013</b> , 49, 8229-31	5.8	55
489	An Insight into Artificial Leaves for Sustainable Energy Inspired by Natural Photosynthesis. <i>ChemCatChem</i> , <b>2011</b> , 3, 513-528	5.2	55
488	A NiCo <sub>2</sub> S <sub>4</sub> /hierarchical porous carbon for high performance asymmetrical supercapacitor. <i>Journal of Power Sources</i> , <b>2019</b> , 427, 138-144	8.9	54
487	Optical Functional Materials Inspired by Biology. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 195-224	8.1	54
486	Biomass-derived hierarchical porous CdS/M/TiO <sub>2</sub> (M=Au, Ag, Pt, Pd) ternary heterojunctions for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 16293-16301	6.7	54



485	Fabrication and gas sensitivity of SnO <sub>2</sub> hierarchical films with interwoven tubular conformation by a biotemplate-directed sol-gel technique. <i>Nanotechnology</i> , <b>2006</b> , 17, 3968-3972	3.4	54
484	Particle size effect on the interfacial properties of SiC particle-reinforced Al-Cu-Mg composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 711, 643-649	5.3	54
483	Design of an efficient flake powder metallurgy route to fabricate CNT/6061Al composites. <i>Materials and Design</i> , <b>2018</b> , 142, 288-296	8.1	53
482	Facile Self-Cross-Linking Synthesis of 3D Nanoporous Co <sub>3</sub> O <sub>4</sub> /Carbon Hybrid Electrode Materials for Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16035-44	9.5	53
481	3D hierarchical porous SnO <sub>2</sub> derived from self-assembled biological systems for superior gas sensing application,. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1121-1126		53
480	Effect of reinforcements on high temperature mechanical properties of in situ synthesized titanium matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 491, 192-198	5.3	53
479	Microstructural characterization of TiC in in situ synthesized titanium matrix composites prepared by common casting technique. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 327, 248-252	5.7	53
478	Enhanced dislocation obstruction in nanolaminated graphene/Cu composite as revealed by stress relaxation experiments. <i>Scripta Materialia</i> , <b>2017</b> , 131, 67-71	5.6	52
477	Artificial photosynthesis on tree trunk derived alkaline tantalates with hierarchical anatomy: towards CO <sub>2</sub> photo-fixation into CO and CH <sub>4</sub> . <i>Nanoscale</i> , <b>2015</b> , 7, 113-20	7.7	52
476	A quantitative method to characterize the Al <sub>4</sub> C <sub>3</sub> -formed interfacial reaction: The case study of MWCNT/Al composites. <i>Materials Characterization</i> , <b>2016</b> , 112, 213-218	3.9	51
475	Synthesis of Nd:YAG powders leading to transparent ceramics: The effect of MgO dopant. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 653-657	6	51
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472	Microstructure evolution of near-titanium alloys during thermomechanical processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 416, 59-65	5.3	51
471	Fluorine-free Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (T = O, OH) nanosheets (~50-100 nm) for nitrogen fixation under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14462-14465	13	50
470	3D Printing of Artificial Leaf with Tunable Hierarchical Porosity for CO <sub>2</sub> Photoreduction. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 799-806	9.6	50
469	Spontaneous Cross-linking for Fabrication of Nanohybrids Embedded with Size-Controllable Particles. <i>ACS Nano</i> , <b>2016</b> , 10, 889-98	16.7	50
468	Effect of heat treatment temperature on microstructure and mechanical properties of in situ titanium matrix composites. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4269-4273		50

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460	Effect of ECAP numbers on microstructure and properties of titanium matrix composite. <i>Materials &amp; Design</i> , <b>2015</b> , 75, 113-119		47
459	Interfacial strength and deformation mechanism of SiC/Al composite micro-pillars. <i>Scripta Materialia</i> , <b>2016</b> , 114, 56-59	5.6	47
458	Microstructure evolution and mechanical properties of a Ti-35Nb-3Zr-2Ta biomedical alloy processed by equal channel angular pressing (ECAP). <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 4551-4561	8.3	47
457	Precision replication of hierarchical biological structures by metal oxides using a sonochemical method. <i>Langmuir</i> , <b>2008</b> , 24, 6292-9	4	47
456	Back stress in strain hardening of carbon nanotube/aluminum composites. <i>Materials Research Letters</i> , <b>2018</b> , 6, 113-120	7.4	47
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438	Microstructure and tensile properties of in situ synthesized (TiB+Y <sub>2</sub> O <sub>3</sub> )/Ti composites at elevated temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 360, 176-182	5.3	43
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4 <sup>10</sup>	Ultralight, flexible carbon hybrid aerogels from bacterial cellulose for strong microwave absorption. <i>Carbon</i> , <b>2020</b> , 162, 283-291	10.4	36
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4 <sup>08</sup>	Grafting of graphene oxide with stimuli-responsive polymers by using ATRP for drug release. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	36
4 <sup>07</sup>	Hydrogen evolution via sunlight water splitting on an artificial butterfly wing architecture. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10872-6	3.6	36
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4 <sup>04</sup>	2.44KW laser output of Nd:YAG ceramic slab fabricated by a solid-state reactive sintering. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 538, 258-261	5.7	35
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32	Effect of thermomechanical treatment and length-scales on spatial distribution of CNTs in Al matrix. <i>Carbon</i> , <b>2022</b> , 190, 384-394	10.4	1
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15	Surface-Enhanced Raman Scattering (SERS) Mechanisms of Metal Scale Replicas. <i>SpringerBriefs in Materials</i> , <b>2015</b> , 69-88	0.5	
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