

Tao Chen

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.

386
papers

14,112
citations

63
h-index

102
g-index

406
ext. papers

17,444
ext. citations

7.7
avg, IF

7
L-index

#	Paper	IF	Citations
386	Stimuli-responsive hydrogel sponge for ultrafast responsive actuator 2022 , 1, 100002		2
385	Constructing oxidized carbon spheres-based heterogeneous membrane with high surface energy for energy-free water purification. <i>Chemical Engineering Journal</i> , 2022 , 431, 134132	14.7	1
384	Breathable and superhydrophobic photothermic fabric enables efficient interface energy management via confined heating strategy for sustainable seawater evaporation. <i>Chemical Engineering Journal</i> , 2022 , 428, 131142	14.7	5
383	Biomimetic organohydrogel actuator with high response speed and synergistic fluorescent variation. <i>Chemical Engineering Journal</i> , 2022 , 429, 132290	14.7	12
382	Supramolecular topological hydrogels: from material design to applications. <i>Polymer Chemistry</i> , 2022 , 13, 1940-1952	4.9	2
381	Bioinspired Adaptive, Elastic, and Conductive Graphene Structured Thin-Films Achieving High-Efficiency Underwater Detection and Vibration Perception.. <i>Nano-Micro Letters</i> , 2022 , 14, 62	19.5	1
380	Green flexible electronics based on starch. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	4
379	Biomass-derived nanostructured coatings based on cellulose nanofibers-melanin hybrids toward solar-enabled multifunctional energy management. <i>Nano Energy</i> , 2022 , 97, 107180	17.1	2
378	Shell inspired heterogeneous membrane with smaller bandgap toward sunlight-activated sustainable water purification. <i>Chemical Engineering Journal</i> , 2022 , 440, 135910	14.7	1
377	Strain-Insensitive Self-Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Graphene-Elastomer Composite. <i>Advanced Functional Materials</i> , 2022 , 32, 2107281	15.6	7
376	Coral-like Hierarchically Nanostructured Membrane with High Free Volume for Salt-free Solar-Enabled Water Purification. <i>Materials Today Physics</i> , 2022 , 100715	8	1
375	Seawater-Boosting Surface-Initiated Atom Transfer Radical Polymerization for Functional Polymer Brush Engineering.. <i>ACS Macro Letters</i> , 2022 , 11, 693-698	6.6	0
374	The R168G heterozygous mutation of tropomyosin 3 (TPM3) was identified in three family members and has manifestations ranging from asymptotic to serve scoliosis and respiratory complications. <i>Genes and Diseases</i> , 2021 , 8, 715-720	6.6	2
373	A Logic-based Diagnostic and Therapeutic Hydrogel with Multi-stimuli Responsiveness to Orchestrate Diabetic Bone Regeneration.. <i>Advanced Materials</i> , 2021 , e2108430	24	9
372	Instant interfacial self-assembly for homogeneous nanoparticle monolayer enabled conformal "lift-on" thin film technology.. <i>Science Advances</i> , 2021 , 7, eabk2852	14.3	10
371	Separation of five flavone glycosides including two groups with similar polarities from <i>Dracocephalum tanguticum</i> by a combination of three high-speed counter-current chromatography modes. <i>Journal of Separation Science</i> , 2021 ,	3.4	3
370	Supramolecular fabrication of hyperbranched polyethyleneimine toward nanofiltration membrane for efficient wastewater purification. <i>SusMat</i> , 2021 , 1, 558		2

369	Cephalopod-Inspired Design of Photomechanically Modulated Display Systems for On-Demand Fluorescent Patterning. <i>Advanced Materials</i> , 2021 , e2107452	24	11
368	Atmospheric Hygroscopic Ionogels with Dynamically Stable Cooling Interfaces Enable a Durable Thermoelectric Performance Enhancement. <i>Advanced Materials</i> , 2021 , 33, e2103937	24	15
367	Ultrastable porous organic/inorganic polymers based on polyhedral oligomeric silsesquioxane (POSS) hybrids exhibiting high performance for thermal property and energy storage. <i>Microporous and Mesoporous Materials</i> , 2021 , 328, 111505	5.3	15
366	Anti-freezing organohydrogel triboelectric nanogenerator toward highly efficient and flexible human-machine interaction at 30 °C. <i>Nano Energy</i> , 2021 , 90, 106614	17.1	14
365	HSCCC Separation of Three Main Compounds from the Crude Extract of Dracocephalum Tanguticum by Using Dimethyl Sulfoxide as Cosolvent. <i>Journal of Chromatographic Science</i> , 2021 , 59, 175-181	1.4	2
364	Integrated dynamic wet spinning of core-sheath hydrogel fibers for optical-to-brain/tissue communications. <i>National Science Review</i> , 2021 , 8, nwaa209	10.8	15
363	Water Purification: Sphagnum Inspired g-C ₃ N ₄ Nano/Microspheres with Smaller Bandgap in Heterojunction Membranes for Sunlight-Driven Water Purification (Small 12/2021). <i>Small</i> , 2021 , 17, 2170054	11	0
362	Ligament-Inspired Tough and Anisotropic Fibrous Gel Belt with Programed Shape Deformations Dynamic Stretching. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19291-19300	9.5	5
361	A panther chameleon skin-inspired core@shell supramolecular hydrogel with spatially organized multi-luminogens enables programmable color change. <i>Cell Reports Physical Science</i> , 2021 , 2, 100417	6.1	10
360	Promotion of Color-Changing Luminescent Hydrogels from Thermo to Electrical Responsiveness toward Biomimetic Skin Applications. <i>ACS Nano</i> , 2021 , 15, 10415-10427	16.7	30
359	Multifunctional CNTs-PAA/MIL101(Fe)@Pt Composite Membrane for High-throughput Oily Wastewater Remediation. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123547	12.8	15
358	Multi-Field Synergy Manipulating Soft Polymeric Hydrogel Transformers. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000208	6	10
357	Multifunctional superhydrophobic adsorbents by mixed-dimensional particles assembly for polymorphic and highly efficient oil-water separation. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124374	12.8	9
356	Interfacial Fabrication of CNTs/PVDF Bilayer Actuator with Fast Responses to the Light and Organic Solvent Vapor Stimuli. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000502	3.9	5
355	Biomimetic underwater self-perceptive actuating soft system based on highly compliant, morphable and conductive sandwiched thin films. <i>Nano Energy</i> , 2021 , 81, 105617	17.1	10
354	A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie</i> , 2021 , 133, 3684-3690	3.6	8
353	A Urease-Containing Fluorescent Hydrogel for Transient Information Storage. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3640-3646	16.4	53
352	Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. <i>Materials Horizons</i> , 2021 , 8, 351-369	14.4	85

351	Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie</i> , 2021 , 133, 8690-8706	3.6	7
350	Multicolor Fluorescent Polymeric Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8608-8624	3.4	52
349	A fully hydrophobic ionogel enables highly efficient wearable underwater sensors and communicators. <i>Materials Horizons</i> , 2021 , 8, 2761-2770	14.4	28
348	Multifunctional Polyhedral Oligomeric Silsesquioxane (POSS) Based Hybrid Porous Materials for CO Uptake and Iodine Adsorption. <i>Polymers</i> , 2021 , 13,	4.5	41
347	Recent progress in the shape deformation of polymeric hydrogels from memory to actuation. <i>Chemical Science</i> , 2021 , 12, 6472-6487	9.4	16
346	Heterogeneous structured tough conductive gel fibres for stable and high-performance wearable strain sensors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12265-12275	13	8
345	Synthesis of Janus Au@BCP nanoparticles via UV light-initiated RAFT polymerization-induced self-assembly. <i>Nanoscale Advances</i> , 2021 , 3, 347-352	5.1	5
344	Nature-inspired polymer catalyst for formulating on/off-selective catalytic ability, by virtue of recognition/misrecognition-alterable scaffolds. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 2521-2531	3.2	1
343	Multicolor Fluorescent Polymeric Actuator with Self-Sustained Oscillation Behavior. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000781	3.9	1
342	Programming Multistate Aggregation-Induced Emissive Polymeric Hydrogel into 3D Structures for On-Demand Information Decryption and Transmission. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000239	6	18
341	Progress in aggregation-induced emission-active fluorescent polymeric hydrogels. <i>Aggregate</i> , 2021 , 2, e37	22.9	17
340	Sphagnum Inspired g-C N Nano/Microspheres with Smaller Bandgap in Heterojunction Membranes for Sunlight-Driven Water Purification. <i>Small</i> , 2021 , 17, e2007122	11	16
339	Ridge preservation applying a novel hydrogel for early angiogenesis and osteogenesis evaluation: an experimental study in canine. <i>Journal of Biological Engineering</i> , 2021 , 15, 19	6.3	4
338	Self-healing Polymeric Hydrogels: Toward Multifunctional Soft Smart Materials. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 1262-1280	3.5	0
337	Mechanically robust, solar-driven, and degradable lignin-based polyurethane adsorbent for efficient crude oil spill remediation. <i>Chemical Engineering Journal</i> , 2021 , 415, 128956	14.7	19
336	Asymmetric bilayer CNTs-elastomer/hydrogel composite as soft actuators with sensing performance. <i>Chemical Engineering Journal</i> , 2021 , 415, 128988	14.7	19
335	Recent Progress in Superhydrophilic Carbon-Based Composite Membranes for Oil/Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36679-36696	9.5	14
334	Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21890-21898	16.4	21

333	Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. <i>Angewandte Chemie</i> , 2021 , 133, 22061-22069	3.6	0
332	High-temperature pyrolysis modeling of a thermally thick biomass particle based on an MD-derived tar cracking model. <i>Chemical Engineering Journal</i> , 2021 , 417, 127923	14.7	6
331	Engineering Janus CNTs/OCS composite membrane at air/water interface for excellent dye molecules screening. <i>Chemical Engineering Journal</i> , 2021 , 417, 127947	14.7	5
330	The applicability of pH-zone-refining counter-current chromatography for preparative separation of biosynthesis products: Glycosylation products as example. <i>Journal of Chromatography A</i> , 2021 , 1657, 462582	4.5	1
329	Separation of a new triterpenoid saponin together with six known ones from (Maxim.) Korsh and evaluation of their cytotoxic activities. <i>Natural Product Research</i> , 2021 , 1-8	2.3	0
328	Recent Progress in Bionic Skin Based on Conductive Polymer Gels. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100480	4.8	6
327	A reactor-scale CFD model of soot formation during high-temperature pyrolysis and gasification of biomass. <i>Fuel</i> , 2021 , 303, 121240	7.1	1
326	Tension-compression asymmetry of the stress-strain behavior of the stacked graphene assembly: Experimental measurement and theoretical interpretation. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 157, 104642	5	1
325	Bioinspired Nanostructured Superwetting Thin-Films in a Self-supported Form Enabled "Miniature Umbrella" for Weather Monitoring and Water Rescue.. <i>Nano-Micro Letters</i> , 2021 , 14, 32	19.5	2
324	Preparations of Tough and Conductive PAMPS/PAA Double Network Hydrogels Containing Cellulose Nanofibers and Polypyrroles. <i>Polymers</i> , 2020 , 12,	4.5	9
323	CFD-DEM Simulation of Biomass Pyrolysis in Fluidized-Bed Reactor with a Multistep Kinetic Scheme. <i>Energies</i> , 2020 , 13, 5358	3.1	8
322	Heteroporous bifluorenylidene-based covalent organic frameworks displaying exceptional dye adsorption behavior and high energy storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25148-25155	13	33
321	Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. <i>Advanced Materials</i> , 2020 , 32, e2004290	24	83
320	Actuating Supramolecular Shape Memorized Hydrogel Toward Programmable Shape Deformation. <i>Small</i> , 2020 , 16, e2005461	11	26
319	Naphthalimide-Based Aggregation-Induced Emissive Polymeric Hydrogels for Fluorescent Pattern Switch and Biomimetic Actuators. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000123	4.8	23
318	High-Molecular-Weight PLA-PEO-PLA Triblock Copolymer Templated Large Mesoporous Carbons for Supercapacitors and CO Capture. <i>Polymers</i> , 2020 , 12,	4.5	14
317	Macroscopic Orientational Gold Nanorods Monolayer Film with Excellent Photothermal Anticounterfeiting Performance. <i>Advanced Optical Materials</i> , 2020 , 8, 1902082	8.1	14
316	Main Chain-Type Block Copolymers through Atom Transfer Radical Polymerization from Double-Decker-Shaped Polyhedral Oligomeric Silsesquioxane Hybrids. <i>Polymers</i> , 2020 , 12,	4.5	8

315	Converting Pomelo Peel into Eco-friendly and Low-Consumption Photothermic Biomass Sponge toward Multifunctional Solar-to-Heat Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5328-5337	8.3	40
314	Macroscopic two-dimensional monolayer films of gold nanoparticles: fabrication strategies, surface engineering and functional applications. <i>Nanoscale</i> , 2020 , 12, 7433-7460	7.7	30
313	Ionic Strength and Thermal Dual-Responsive Bilayer Hollow Spherical Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900543	4.8	12
312	Macroscopic Au@PANI Core/Shell Nanoparticle Superlattice Monolayer Film with Dual-Responsive Plasmonic Switches. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11296-11304	9.5	22
311	Pyrolysis Simulation of Thermally Thick Biomass Particles Based on a Multistep Kinetic Scheme. <i>Energy & Fuels</i> , 2020 , 34, 1940-1957	4.1	10
310	Gelatin Nanoparticle-Injectable Platelet-Rich Fibrin Double Network Hydrogels with Local Adaptability and Bioactivity for Enhanced Osteogenesis. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901469	10.1	26
309	Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. <i>Journal of Materiomics</i> , 2020 , 6, 86-101	6.7	40
308	Comparison of in-situ bone ring technique and tent-pole technique for horizontally deficient alveolar ridge in the anterior maxilla. <i>Clinical Implant Dentistry and Related Research</i> , 2020 , 22, 167-176	3.9	0
307	Efficient separation of five flavonoids from <i>Oxytropis falcata bunge</i> by high-speed counter-current chromatography and their anticancer activity. <i>Acta Chromatographica</i> , 2020 , 32, 189-193	1.5	3
306	Free-Standing 2D Janus Gold Nanoparticles Monolayer Film with Tunable Bifacial Morphologies via the Asymmetric Growth at Air-Liquid Interface. <i>Langmuir</i> , 2020 , 36, 250-256	4	13
305	Reactive spinning to achieve nanocomposite gel fibers: from monomer to fiber dynamically with enhanced anisotropy. <i>Materials Horizons</i> , 2020 , 7, 811-819	14.4	18
304	Conductive Self-Healing Nanocomposite Hydrogel Skin Sensors with Antifreezing and Thermoresponsive Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3068-3079	9.5	66
303	Photoresponsive Azobenzene Materials Based on Pyridine-Functionalized Benzoxazines as Surface Relief Gratings. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 791-804	4.3	10
302	Collective behaviors mediated multifunctional black sand aggregate towards environmentally adaptive solar-to-thermal purified water harvesting. <i>Nano Energy</i> , 2020 , 68, 104311	17.1	51
301	Exploring interface confined water flow and evaporation enables solar-thermal-electro integration towards clean water and electricity harvest via asymmetric functionalization strategy. <i>Nano Energy</i> , 2020 , 68, 104385	17.1	51
300	CNTs/TiO ₂ composite membrane with adaptable wettability for on-demand oil/water separation. <i>Journal of Cleaner Production</i> , 2020 , 275, 124011	10.3	15
299	Mechanochromic double network hydrogels as a compression stress sensor. <i>Polymer Chemistry</i> , 2020 , 11, 6423-6428	4.9	16
298	Tough Gel-Fibers as Strain Sensors Based on Strain-Optics Conversion Induced by Anisotropic Structural Evolution. <i>Chemistry of Materials</i> , 2020 , 32, 9675-9687	9.6	6

297	Tillandsia-Inspired Hygroscopic Photothermal Organogels for Efficient Atmospheric Water Harvesting. <i>Angewandte Chemie</i> , 2020 , 132, 19399-19408	3.6	3
296	Tillandsia-Inspired Hygroscopic Photothermal Organogels for Efficient Atmospheric Water Harvesting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19237-19246	16.4	37
295	Interfacial self-assembled GR/GO ultrathin membranes on a large scale for molecular sieving. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18735-18744	13	8
294	Triboelectric nanogenerator sensors for soft robotics aiming at digital twin applications. <i>Nature Communications</i> , 2020 , 11, 5381	17.4	133
293	Separation of five flavonoids with similar polarity from <i>Caragana korshinskii</i> Kom. by preparative high speed counter-current chromatography with recycling and heart cut mode. <i>Journal of Separation Science</i> , 2020 , 43, 3748-3755	3.4	5
292	Asymmetric elastoplasticity of stacked graphene assembly actualizes programmable untethered soft robotics. <i>Nature Communications</i> , 2020 , 11, 4359	17.4	54
291	Nitrogen-Doped microporous carbons derived from azobenzene and nitrile-functionalized polybenzoxazines for CO ₂ uptake. <i>Materials Today Communications</i> , 2020 , 24, 101111	2.5	20
290	Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16243-16251	16.4	136
289	Programmable Interface Asymmetric Integration of Carbon Nanotubes and Gold Nanoparticles toward Flexible, Configurable, and Surface-Enhanced Raman Scattering Active All-In-One Solar-Driven Evaporators. <i>Energy Technology</i> , 2019 , 7, 1900787	3.5	4
288	Combined chromatographic strategy based on macroporous resin, high-speed counter-current chromatography and preparative HPLC for systematic separation of seven antioxidants from the fruit of <i>Terminalia billericia</i> . <i>Journal of Separation Science</i> , 2019 , 42, 3191	3.4	5
287	Biofriendly and Regenerable Emotional Monitor from Interfacial Ultrathin 2D PDA/AuNPs Cross-linking Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36259-36269	9.5	17
286	Entanglement-Driven Adhesion, Self-Healing, and High Stretchability of Double-Network PEG-Based Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36458-36468	9.5	37
285	Fluorescent microsphere probe for rapid qualitative and quantitative detection of trypsin activity. <i>Nanoscale Advances</i> , 2019 , 1, 162-167	5.1	7
284	Trends in polymeric shape memory hydrogels and hydrogel actuators. <i>Polymer Chemistry</i> , 2019 , 10, 10364-10371	10.55	102
283	Ionoprinting controlled information storage of fluorescent hydrogel for hierarchical and multi-dimensional decryption. <i>Science China Materials</i> , 2019 , 62, 831-839	7.1	28
282	Strontium Ranelate Incorporated Enzyme-Cross-Linked Gelatin Nanoparticle/Silk Fibroin Aerogel for Osteogenesis in OVX-Induced Osteoporosis. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1440-1451	5.5	16
281	Super Hydrophilic Semi-IPN Fluorescent Poly(-(2-hydroxyethyl)acrylamide) Hydrogel for Ultrafast, Selective, and Long-Term Effective Mercury(II) Detection in a Bacteria-Laden System.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 906-915	4.1	12
280	Electrically responsive structural colors from colloidal crystal arrays of PS@PANI core-shell nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 577, 75-83	5.1	3

279	Silver Nanoplates and Gold Nanospheres as Probes for Revealing an Interference Phenomenon in a Simultaneous Quantitative Immunochromatographic Assay. <i>Food Analytical Methods</i> , 2019 , 12, 1666-1673	3.4	4
278	Morphology Evolutions and Mechanical Properties of In Situ Fibrillar Polylactic Acid/Thermoplastic Polyurethane Blends Fabricated by Fused Deposition Modeling. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900107	3.9	15
277	Modelling the combustion of thermally thick biomass particles. <i>Powder Technology</i> , 2019 , 353, 110-124	5.2	12
276	Air/water interfacial growth of Pt nanothorns anchored in situ on macroscopic freestanding CNT thin film for efficient methanol oxidation. <i>New Journal of Chemistry</i> , 2019 , 43, 6063-6068	3.6	3
275	Rationally Programmable Paper-Based Artificial Trees Toward Multipath Solar-Driven Water Extraction from Liquid/Solid Substrates. <i>Solar Rrl</i> , 2019 , 3, 1900004	7.1	18
274	Micro-/Macroscopically Synergetic Control of Switchable 2D/3D Photothermal Water Purification Enabled by Robust, Portable, and Cost-Effective Cellulose Papers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15498-15506	9.5	48
273	Hydrophilic/Hydrophobic Interphase-Mediated Bubble-like Stretchable Janus Ultrathin Films toward Self-Adaptive and Pneumatic Multifunctional Electronics. <i>ACS Nano</i> , 2019 , 13, 4368-4378	16.7	31
272	A scalable, low-cost and robust photo-thermal fabric with tunable and programmable 2D/3D structures towards environmentally adaptable liquid/solid-medium water extraction. <i>Nano Energy</i> , 2019 , 65, 104002	17.1	63
271	Aggregation-Caused Quenching-Type Naphthalimide Fluorophores Grafted and Ionized in a 3D Polymeric Hydrogel Network for Highly Fluorescent and Locally Tunable Emission. <i>ACS Macro Letters</i> , 2019 , 8, 937-942	6.6	31
270	Surface-Initiated Initiators for Continuous Activator Regeneration (SI ICAR) ATRP of MMA from 2,2,6,6-tetramethylpiperidine-1-oxy (TEMPO) Oxidized Cellulose Nanofibers for the Preparations of PMMA Nanocomposites. <i>Polymers</i> , 2019 , 11,	4.5	15
269	3D Fluorescent Hydrogel Origami for Multistage Data Security Protection. <i>Advanced Functional Materials</i> , 2019 , 29, 1905514	15.6	83
268	Mechanistic Investigation of Au(III)-Catalyzed Cycloisomerizations of N-Propargylcarboxamides. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 6822-6829	3.2	1
267	Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie</i> , 2019 , 131, 16389-16397	3.6	22
266	Spontaneous Growth of 3D Silver Mesoflowers on Poly(4-vinylpyridine) Brushes-Grafted-Graphene Oxide Films and Facile Creation of Nanoporosities over their Surface. <i>Chemistry - A European Journal</i> , 2019 , 25, 16377-16381	4.8	2
265	Antifreezing and Stretchable Organohydrogels as Soft Actuators. <i>Research</i> , 2019 , 2019, 2384347	7.8	34
264	A Hollow Microtubular Triazine- and Benzobisoxazole-Based Covalent Organic Framework Presenting Sponge-Like Shells That Functions as a High-Performance Supercapacitor. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1429-1435	4.5	45
263	A practicable strategy for enrichment and separation of four minor flavonoids including two isomers from barley seedlings by macroporous resin column chromatography, medium-pressure LC, and high-speed countercurrent chromatography. <i>Journal of Separation Science</i> , 2019 , 42, 1717-1724	3.4	5
262	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. <i>Nano Energy</i> , 2019 , 59, 422-433	17.1	113

261	Supramolecular Fabrication of Complex 3D Hollow Polymeric Hydrogels with Shape and Function Diversity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48564-48573	9.5	5
260	Ultrastable tetraphenyl-p-phenylenediamine-based covalent organic frameworks as platforms for high-performance electrochemical supercapacitors. <i>Chemical Communications</i> , 2019 , 55, 14890-14893	5.8	52
259	A self-protective, reproducible textile sensor with high performance towards human-machine interactions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26631-26640	13	40
258	Asymmetrical Molecular Decoration of Gold Nanorods for Engineering of Shape-Controlled AuNR@Ag Core-Shell Nanostructures. <i>Langmuir</i> , 2019 , 35, 16900-16906	4	13
257	Fluorescent Hydrogel-Coated Paper/Textile as Flexible Chemosensor for Visual and Wearable Mercury(II) Detection. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800201	6.8	31
256	Recent Progress in Biomimetic Anisotropic Hydrogel Actuators. <i>Advanced Science</i> , 2019 , 6, 1801584	13.6	214
255	Cubic-like BaZrO ₃ nanocrystals with exposed {001}/{011} facets and tuned electronic band structure for enhanced photocatalytic hydrogen production. <i>Journal of Materials Science</i> , 2019 , 54, 19671-1976	4.3	11
254	pH and Thermo Dual-Responsive Fluorescent Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800648	4.8	39
253	Robust construction of underwater superoleophobic CNTs/nanoparticles multifunctional hybrid membranes via interception effect for oily wastewater purification. <i>Journal of Membrane Science</i> , 2019 , 569, 32-40	9.6	51
252	An effective method based on medium-pressure liquid chromatography and recycling high-speed counter-current chromatography for enrichment and separation of three minor components with similar polarity from <i>Dracocephalum tanguticum</i> . <i>Journal of Separation Science</i> , 2019 , 42, 684-690	3.4	2
251	Light-Controlled Shrinkage of Large-Area Gold Nanoparticle Monolayer Film for Tunable SERS Activity. <i>Chemistry of Materials</i> , 2018 , 30, 1989-1997	9.6	71
250	Direct solution deposition of device quality Sb ₂ S ₃ -xSex films for high efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 183, 52-58	6.4	49
249	Phosphotungstic Acid Regulated Chemical Bath Deposition of Sb ₂ S ₃ for High-Efficiency Planar Heterojunction Solar Cell. <i>Energy Technology</i> , 2018 , 6, 2126-2131	3.5	10
248	Real-Time in Situ Investigation of Supramolecular Shape Memory Process by Fluorescence Switching. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9499-9506	3.8	25
247	Network cracks-based wearable strain sensors for subtle and large strain detection of human motions. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5140-5147	7.1	114
246	3D cone beam computed tomography reconstruction images in diagnosis of ameloblastomas of lower jaw: A case report and mini review. <i>Journal of X-Ray Science and Technology</i> , 2018 , 26, 133-140	2.1	
245	Competitive Hydrogen Bonding Interactions Influence the Secondary and Hierarchical Self-Assembled Structures of Polypeptide-Based Triblock Copolymers. <i>Macromolecules</i> , 2018 , 51, 3017-3029	5.5	16
244	Designing a reductive hybrid membrane to selectively capture noble metallic ions during oil/water emulsion separation with further function enhancement. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10217-10225	13	20

243	Macroscopic-Oriented Gold Nanorods in Polyvinyl Alcohol Films for Polarization-Dependent Multicolor Displays. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800026	4.6	7
242	Separation of three polar compounds from Rheum tanguticum by high-speed countercurrent chromatography with an ethyl acetate/glacial acetic acid/water system. <i>Journal of Separation Science</i> , 2018 , 41, 1775-1780	3.4	13
241	Actuators: Bioinspired Anisotropic Hydrogel Actuators with On/Off Switchable and Color-Tunable Fluorescence Behaviors (Adv. Funct. Mater. 7/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870043	15.6	4
240	3D hierarchical Ag nanostructures formed on poly(acrylic acid) brushes grafted graphene oxide as promising SERS substrates. <i>Nanotechnology</i> , 2018 , 29, 115503	3.4	5
239	Phase Engineering of Perovskite Materials for High-Efficiency Solar Cells: Rapid Conversion of CHNHPbI to Phase-Pure CHNHPbCl via Hydrochloric Acid Vapor Annealing Post-Treatment. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1897-1908	9.5	49
238	Biodegradable PLA Nonwoven Fabric with Controllable Wettability for Efficient Water Purification and Photocatalysis Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2445-2452	8.3	49
237	Actuating and memorizing bilayer hydrogels for a self-deformed shape memory function. <i>Chemical Communications</i> , 2018 , 54, 1229-1232	5.8	72
236	Nanozyme-based lateral flow assay for the sensitive detection of Escherichia coli O157:H7 in milk. <i>Journal of Dairy Science</i> , 2018 , 101, 5770-5779	4	55
235	Scalable fabrication of free-standing, stretchable CNT/TPE ultrathin composite films for skin adhesive epidermal electronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6666-6671	7.1	23
234	Shape Memory Hydrogels with Simultaneously Switchable Fluorescence Behavior. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800130	4.8	10
233	Giant Gold Nanowire Vesicle-Based Colorimetric and SERS Dual-Mode Immunosensor for Ultrasensitive Detection of Vibrio parahemolyticus. <i>Analytical Chemistry</i> , 2018 , 90, 6124-6130	7.8	51
232	Humidity-Responsive Gold Aerogel for Real-Time Monitoring of Human Breath. <i>Langmuir</i> , 2018 , 34, 4908-4913	4.9	31
231	A Novel Anisotropic Hydrogel with Integrated Self-Deformation and Controllable Shape Memory Effect. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800019	4.8	36
230	Tuning the morphology of amphiphilic copolymer aggregates by compound emulsifier via emulsion-solvent evaporation. <i>Journal of Saudi Chemical Society</i> , 2018 , 22, 297-305	4.3	8
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228	An Off-the-Shelf Shape Memory Hydrogel Based on the Dynamic Borax-Diol Ester Bonds. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800144	3.9	17
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226	Separation of six compounds including two n-butylphenone isomers and two stilbene isomers from Rheum tanguticum Maxim by recycling high speed counter-current chromatography and preparative high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2018 , 41, 3660-3668	3.4	16

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224	Bioinspired Anisotropic Hydrogel Actuators with On/Off Switchable and Color-Tunable Fluorescence Behaviors. <i>Advanced Functional Materials</i> , 2018 , 28, 1704568	15.6	252
223	Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1320-1327	7.1	125
222	Synthesis of well-defined PCL-b-PnBA-b-PMMA ABC-type triblock copolymers: toward the construction of nanostructures in epoxy thermosets. <i>Polymer Chemistry</i> , 2018 , 9, 5644-5654	4.9	21
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220	A lotus-inspired janus hybrid film enabled by interfacial self-assembly and in situ asymmetric modification. <i>Chemical Communications</i> , 2018 , 54, 12804-12807	5.8	20
219	Polymerization driven monomer passage through monolayer chemical vapour deposition graphene. <i>Nature Communications</i> , 2018 , 9, 4051	17.4	9
218	Fried egg-like Au mesostructures grown on poly(4-vinylpyridine) brushes grafted onto graphene oxide. <i>New Journal of Chemistry</i> , 2018 , 42, 17016-17020	3.6	8
217	Rationally Optimized Fluorescent Probe for Imaging Mitochondrial SO in HeLa Cells and Zebrafish. <i>Analytical Chemistry</i> , 2018 , 90, 12442-12448	7.8	43
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214	Ultrafast and Efficient Detection of Formaldehyde in Aqueous Solutions Using Chitosan-based Fluorescent Polymers. <i>ACS Sensors</i> , 2018 , 3, 2394-2401	9.2	40
213	Triboelectric Self-Powered Wearable Flexible Patch as 3D Motion Control Interface for Robotic Manipulator. <i>ACS Nano</i> , 2018 , 12, 11561-11571	16.7	118
212	Functionalization of Biodegradable PLA Nonwoven Fabric as Superoleophilic and Superhydrophobic Material for Efficient Oil Absorption and Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5968-5973	9.5	180
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210	Hollow Au-Ag Nanoparticles Labeled Immunochromatography Strip for Highly Sensitive Detection of Clenbuterol. <i>Scientific Reports</i> , 2017 , 7, 41419	4.9	27
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207	A water-soluble near-infrared (NIR) fluorescence activation probe for efficient detection of dissolved carbon dioxide. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 631-637	8.5	17
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137	A direct microcontact printing induced supramolecular interaction for creating shape-tunable patterned polymeric surfaces. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8659-8664	7.1	1
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132	Behavior of anode-supported SOFCs under simulated syngases. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 639-646	2.6	4
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130	Thin Films: 2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet (Adv. Funct. Mater. 16/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 2479-2479	15.6	
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122	Controlled functionalization of carbon nanotubes as superhydrophobic material for adjustable oil/water separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4124-4128	13	77
121	One-step hydrothermal synthesis of carbon@Fe ₃ O ₄ nanoparticles with high adsorption capacity. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1381-1387	2.1	9
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115	Electric field induced structural color changes of SiO ₂ @TiO ₂ core-shell colloidal suspensions. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1990	7.1	49
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108	Robust preparation of superhydrophobic polymer/carbon nanotube hybrid membranes for highly effective removal of oils and separation of water-in-oil emulsions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15268	13	168
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105	Fabrication of free-standing multilayer films by using pH-responsive microgels as sacrificial layers. <i>Colloid and Polymer Science</i> , 2014 , 292, 1235-1240	2.4	8
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