

# Ivan P Parkin

## List of Publications by Year in descending order

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818  
papers

41,980  
citations

3264

94  
h-index

6512

162  
g-index

835  
all docs

835  
docs citations

835  
times ranked

47024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mo/Fe bimetallic pyrophosphates derived from Prussian blue analogues for rapid electrocatalytic oxygen evolution. <i>Green Energy and Environment</i> , 2023, 8, 1450-1458.	4.7	4
2	Progress and Perspectives of Organosulfur for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2103483.	10.2	69
3	Liquid-microjet photoelectron spectroscopy of the green fluorescent protein chromophore. <i>Nature Communications</i> , 2022, 13, 507.	5.8	10
4	A route to engineered high aspect-ratio silicon nanostructures through regenerative secondary mask lithography. <i>Nanoscale</i> , 2022, 14, 1847-1854.	2.8	7
5	Electron-Deficient Au Nanoparticles Confined in Organic Molecular Cages for Catalytic Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , 2022, 5, 1276-1283.	2.4	21
6	Universal Theory of Light Scattering of Randomly Oriented Particles: A Fluctuational-Electrodynamics Approach for Light Transport Modeling in Disordered Nanostructures. <i>ACS Photonics</i> , 2022, 9, 672-681.	3.2	2
7	Identification and manipulation of dynamic active site deficiency-induced competing reactions in electrocatalytic oxidation processes. <i>Energy and Environmental Science</i> , 2022, 15, 2386-2396.	15.6	71
8	A light-heat synergism in the sub-bandgap photocatalytic response of pristine TiO <sub>2</sub> : a study of <i>in situ</i> diffusion reflectance and conductance. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5618-5626.	1.3	4
9	Facile formation of black titania films using an atmospheric-pressure plasma jet. <i>Green Chemistry</i> , 2022, 24, 2499-2505.	4.6	3
10	Strong robust superhydrophobic C/silicone monolith for photothermal ice removal. <i>Journal of Materials Science</i> , 2022, 57, 6963-6970.	1.7	8
11	A Universal Polyiodide Regulation Using Quaternization Engineering toward High Value-Added and Ultra-Stable Zinc-Iodine Batteries. <i>Advanced Science</i> , 2022, 9, e2105598.	5.6	58
12	Adsorptivity of Some Organic Compounds to Copper Nanoparticles. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2022, 31, 47-50.	0.2	0
13	Hydrogenation of Xylenes, Ethylbenzene, and Isopropylbenzene on Ni Nanoparticles. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2022, 31, 42-46.	0.2	0
14	Ultra-stretchable and superhydrophobic textile-based bioelectrodes for robust self-cleaning and personal health monitoring. <i>Nano Energy</i> , 2022, 97, 107160.	8.2	64
15	Fabrication of C-Doped Titanium Dioxide Coatings with Improved Anti-icing and Tribological Behavior. <i>Langmuir</i> , 2022, 38, 576-583.	1.6	5
16	Topochemistry-Driven Synthesis of Transition-Metal Selenides with Weakened Van Der Waals Force to Enable 3D-Printed Na-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	91
17	Rationally Designed Sodium Chromium Vanadium Phosphate Cathodes with Multi-Electron Reaction for Fast-Charging Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	71
18	Mussel-Inspired Interfacial Modification for Ultra-Stable MoS <sub>2</sub> Lubricating Films with Improved Tribological Behavior on Nano-Textured ZnO Surfaces Using the AACVD Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 27484-27494.	4.0	7

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19	Robust superamphiphobic coatings with gradient and hierarchical architecture and excellent anti-flashover performances. <i>Nano Research</i> , 2022, 15, 7565-7576.	5.8	10
20	Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 301-311.	5.0	39
21	Some peculiarities of room-temperature ferromagnetism in ensembles of mixed-phase TiN <sub>x</sub> -TiO <sub>y</sub> nanoparticles. <i>Materials Research Bulletin</i> , 2021, 134, 111092.	2.7	5
22	Supersaturated bridge-sulfur and vanadium co-doped MoS <sub>2</sub> nanosheet arrays with enhanced sodium storage capability. <i>Nano Research</i> , 2021, 14, 74-80.	5.8	42
23	Assessment of GaP/Sb/Si tandem material association properties for photoelectrochemical cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 221, 110888.	3.0	4
24	Sol-gel Synthesis of High-density Zeolitic Imidazolate Framework Monoliths via Ligand Assisted Methods: Exceptional Porosity, Hydrophobicity, and Applications in Vapor Adsorption. <i>Advanced Functional Materials</i> , 2021, 31, 2008357.	7.8	32
25	Ambient Fabrication of Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Small Methods</i> , 2021, 5, e2000744.	4.6	63
26	Unprecedented enhancement of wear resistance for epoxy-resin graphene composites. <i>Nanoscale</i> , 2021, 13, 2855-2867.	2.8	34
27	Copper as an antimicrobial agent: recent advances. <i>RSC Advances</i> , 2021, 11, 18179-18186.	1.7	118
28	The bionic sunflower: a bio-inspired autonomous light tracking photocatalytic system. <i>Energy and Environmental Science</i> , 2021, 14, 3931-3937.	15.6	39
29	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. <i>ACS Energy Letters</i> , 2021, 6, 395-403.	8.8	340
30	Palladium alloys used as electrocatalysts for the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2021, 14, 2639-2669.	15.6	158
31	The effect of Cu dopants on electron transfer to O <sub>2</sub> and the connection with acetone photocatalytic oxidations over nano-TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8300-8308.	1.3	6
32	Nonfluoride-modified halloysite nanotube-based hybrid: potential for acquiring super-hydrophobicity and improving flame retardancy of epoxy resin. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 353-366.	5.3	9
33	Bandwidth limits of luminescent solar concentrators as detectors in free-space optical communication systems. <i>Light: Science and Applications</i> , 2021, 10, 3.	7.7	45
34	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO <sub>3</sub> /TiO <sub>2</sub> System as an Archetypical Model. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9781-9793.	4.0	24
35	Zn and N Codoped TiO <sub>2</sub> Thin Films: Photocatalytic and Bactericidal Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10480-10489.	4.0	28
36	Multifunctional two-dimensional glassy graphene devices for vis-NIR photodetection and volatile organic compound sensing. <i>Science China Materials</i> , 2021, 64, 1964-1976.	3.5	5

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37	Optimization of the thermochromic glazing design for curtain wall buildings based on experimental measurements and dynamic simulation. <i>Solar Energy</i> , 2021, 216, 14-25.	2.9	23
38	Multivalent Ion Batteries: Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities (Adv. Funct. Mater. 13/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170089.	7.8	1
39	Natural Clay-Based Materials for Energy Storage and Conversion Applications. <i>Advanced Science</i> , 2021, 8, e2004036.	5.6	56
40	Modelling and measurement of laser-generated focused ultrasound: Can interventional transducers achieve therapeutic effects?. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2732-2742.	0.5	2
41	Insights on Flexible Zinc-Ion Batteries from Lab Research to Commercialization. <i>Advanced Materials</i> , 2021, 33, e2007548.	11.1	191
42	A coating-free superhydrophobic sensing material for full-range human motion and microliter droplet impact detection. <i>Chemical Engineering Journal</i> , 2021, 410, 128418.	6.6	22
43	Zinc-Ion Batteries: Insights on Flexible Zinc-Ion Batteries from Lab Research to Commercialization (Adv.) <i>Tj ETQq1 1 0.784314 rgB</i>	11.1	5
44	Enhancing Hydrogen Evolution Electrocatalytic Performance in Neutral Media via Nitrogen and Iron Phosphide Interactions. <i>Small Science</i> , 2021, 1, 2100032.	5.8	24
45	High Surface Area of Polyhedral Chromia and Hexagonal Chromium Sulfide by the Thermolysis of Cyclohexylammonium Hexaisothiocyanatochromate(III) Sesquihydrate. <i>ChemistrySelect</i> , 2021, 6, 4298-4311.	0.7	2
46	Generating, probing and utilising photo-induced surface oxygen vacancies for trace molecular detection. , 2021, , .		0
47	Robust Protection of III-V Nanowires in Water Splitting by a Thin Compact TiO <sub>2</sub> Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30950-30958.	4.0	12
48	Delayed Lubricant Depletion of Slippery Liquid Infused Porous Surfaces Using Precision Nanostructures. <i>Langmuir</i> , 2021, 37, 10071-10078.	1.6	31
49	Magnetic Field-Induced Orientation of Modified Boron Nitride Nanosheets in Epoxy Resin with Improved Flame and Wear Resistance. <i>Langmuir</i> , 2021, 37, 8222-8231.	1.6	12
50	Facile Fabrication of Robust Hydrogen Evolution Electrodes under High Current Densities via Pt@Cu Interactions. <i>Advanced Functional Materials</i> , 2021, 31, 2105579.	7.8	45
51	Flame retardant and superhydrophobic composites via oriented arrangement of boron nitride nanosheets. <i>Journal of Materials Science</i> , 2021, 56, 19955-19968.	1.7	1
52	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO <sub>2</sub> Films. <i>Nano Letters</i> , 2021, 21, 8348-8354.	4.5	29
53	Engineering Polymer Glue towards 90% Zinc Utilization for 1000 Hours to Make High-Performance Zn-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2107652.	7.8	115
54	Bioinspired Multifunctional Glass Surfaces through Regenerative Secondary Mask Lithography. <i>Advanced Materials</i> , 2021, 33, e2102175.	11.1	13

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55	CuInS <sub>2</sub> Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100518.	1.9	13
56	Kinetics-based design of a flow platform for highly reproducible on demand synthesis of gold nanoparticles with controlled size between 50 and 150Ånm and their application in SERS and PIERS sensing. <i>Chemical Engineering Journal</i> , 2021, 423, 129069.	6.6	13
57	A study of the interaction of cationic dyes with gold nanostructures. <i>RSC Advances</i> , 2021, 11, 17694-17703.	1.7	1
58	Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. <i>Advanced Functional Materials</i> , 2021, 31, 2010445.	7.8	102
59	SERS multiplexing of methylxanthine drug isomers via “guest size matching and machine learning. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12624-12632.	2.7	15
60	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5478-5485.	4.0	12
61	Investigation of a Biomass Hydrogel Electrolyte Naturally Stabilizing Cathodes for Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 745-754.	4.0	64
62	CuInS <sub>2</sub> Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging ( <i>Adv. Mater. Interfaces</i> 20/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170114.	1.9	0
63	Rechargeable aqueous Zn-based energy storage devices. <i>Joule</i> , 2021, 5, 2845-2903.	11.7	201
64	Probing the Role of Atomic Defects in Photocatalytic Systems through Photoinduced Enhanced Raman Scattering. <i>ACS Energy Letters</i> , 2021, 6, 4273-4281.	8.8	22
65	Superhydrophilic–superhydrophobic patterned surfaces on glass substrate for water harvesting. <i>Journal of Materials Science</i> , 2020, 55, 498-508.	1.7	46
66	Resonant doping for high mobility transparent conductors: the case of Mo-doped In <sub>2</sub> O <sub>3</sub> . <i>Materials Horizons</i> , 2020, 7, 236-243.	6.4	64
67	Rapid synthesis of [Au <sub>25</sub> (Cys) <sub>18</sub> ] nanoclusters via carbon monoxide in microfluidic liquid-liquid segmented flow system and their antimicrobial performance. <i>Chemical Engineering Journal</i> , 2020, 383, 123176.	6.6	18
68	Oxygen vacancy engineering in spinel-structured nanosheet wrapped hollow polyhedra for electrochemical nitrogen fixation under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1652-1659.	5.2	59
69	Room Temperature Synthesis of Phosphine-Capped Lead Bromide Perovskite Nanocrystals without Coordinating Solvents. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900391.	1.2	27
70	Corrosion of One-Step Superhydrophobic Stainless-Steel Thermal Spray Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1523-1532.	4.0	33
71	Ambipolar and Robust WSe <sub>2</sub> Field-Effect Transistors Utilizing Self-Assembled Edge Oxides. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901628.	1.9	11
72	Continuous Single-Phase Synthesis of [Au <sub>25</sub> (Cys) <sub>18</sub> ] Nanoclusters and their Photobactericidal Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49021-49029.	4.0	7

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73	Enabling stable MnO <sub>2</sub> matrix for aqueous zinc-ion battery cathodes. Journal of Materials Chemistry A, 2020, 8, 22075-22082.	5.2	101
74	Nonmonotonic contactless manipulation of binary droplets via sensing of localized vapor sources on pristine substrates. Science Advances, 2020, 6, .	4.7	19
75	Flexible and Strong Robust Superhydrophobic Monoliths with Antibacterial Property. ACS Applied Polymer Materials, 2020, 2, 4856-4863.	2.0	22
76	Antimicrobial surfaces: A need for stewardship?. PLoS Pathogens, 2020, 16, e1008880.	2.1	22
77	A Hierarchical 3D TiO <sub>2</sub> /Ni Nanostructure as an Efficient Hole Extraction and Protection Layer for GaAs Photoanodes. ChemSusChem, 2020, 13, 6028-6036.	3.6	8
78	Probing Mg Intercalation in the Tetragonal Tungsten Bronze Framework V <sub>4</sub> Nb <sub>18</sub> O <sub>55</sub> . Inorganic Chemistry, 2020, 59, 9783-9797.	1.9	7
79	Recent Developments in the Field of Explosive Trace Detection. ACS Nano, 2020, 14, 10804-10833.	7.3	110
80	Qualitative Approaches Towards Useful Photocatalytic Materials. Frontiers in Chemistry, 2020, 8, 817.	1.8	5
81	Probing the electronic and geometric structures of photoactive electrodeposited Cu <sub>2</sub> O films by X-ray absorption spectroscopy. Journal of Catalysis, 2020, 389, 483-491.	3.1	8
82	An anti-aging polymer electrolyte for flexible rechargeable zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 22637-22644.	5.2	41
83	Cocaine by-product detection with metal oxide semiconductor sensor arrays. RSC Advances, 2020, 10, 28464-28477.	1.7	6
84	Spacer-Defined Intrinsic Multiple Patterning. ACS Nano, 2020, 14, 12091-12100.	7.3	10
85	High-Performance Zinc Air Batteries with Scalable Metal Organic Frameworks and Platinum Carbon Black Bifunctional Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 42696-42703.	4.0	41
86	Thermoresponsive Black VO <sub>2</sub> Carbon Nanotube Composite Coatings for Solar Energy Harvesting. ACS Applied Nano Materials, 2020, 3, 8848-8857.	2.4	8
87	Combined Effect of Temperature Induced Strain and Oxygen Vacancy on Metal Insulator Transition of VO <sub>2</sub> Colloidal Particles. Advanced Functional Materials, 2020, 30, 2005311.	7.8	42
88	Particle Size Evolution during the Synthesis of Gold Nanoparticles Using <i>In Situ</i> Time-Resolved UV-Vis Spectroscopy: An Experimental and Theoretical Study Unravelling the Effect of Adsorbed Gold Precursor Species. Journal of Physical Chemistry C, 2020, 124, 27662-27672.	1.5	11
89	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. Langmuir, 2020, 36, 13426-13438.	1.6	31
90	Synergistic interactions of cadmium-free quantum dots embedded in a photosensitised polymer surface: efficient killing of multidrug-resistant strains at low ambient light levels. Nanoscale, 2020, 12, 10609-10622.	2.8	6

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91	Dual-triggered nanoaggregates of cucurbit[7]uril and gold nanoparticles for multi-spectroscopic quantification of creatinine in urinalysis. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7051-7058.	2.7	16
92	N <sub>2</sub> Electroreduction to NH <sub>3</sub> by Selenium Vacancy-Rich ReSe <sub>2</sub> Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13320-13327.	7.2	127
93	Effective online high-speed shear dispersing emulsifier technique coupled with high-performance countercurrent chromatography method for simultaneous extraction and isolation of Carotenoids from <i>Lycium barbarum</i> L. fruits. <i>Journal of Separation Science</i> , 2020, 43, 2949-2958.	1.3	9
94	N <sub>2</sub> Electroreduction to NH <sub>3</sub> by Selenium Vacancy-Rich ReSe <sub>2</sub> Catalysis at an Abrupt Interface. <i>Angewandte Chemie</i> , 2020, 132, 13422-13429.	1.6	18
95	New Insights into the Fundamental Principle of Semiconductor Photocatalysis. <i>ACS Omega</i> , 2020, 5, 14847-14856.	1.6	44
96	Advances towards programmable droplet transport on solid surfaces and its applications. <i>Chemical Society Reviews</i> , 2020, 49, 7879-7892.	18.7	86
97	Controlling the Thermoelectric Properties of Organometallic Coordination Polymers via Ligand Design. <i>Advanced Functional Materials</i> , 2020, 30, 2003106.	7.8	15
98	Highly reproducible, high-yield flow synthesis of gold nanoparticles based on a rational reactor design exploiting the reduction of passivated Au(III). <i>Reaction Chemistry and Engineering</i> , 2020, 5, 663-676.	1.9	33
99	Microstructure and antibacterial efficacy of graphene oxide nanocomposite fibres. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 239-252.	5.0	67
100	Radio-metal cross-linking of alginate hydrogels for non-invasive in vivo imaging. <i>Biomaterials</i> , 2020, 243, 119930.	5.7	29
101	Antibacterial Surfaces with Activity against Antimicrobial Resistant Bacterial Pathogens and Endospores. <i>ACS Infectious Diseases</i> , 2020, 6, 939-946.	1.8	21
102	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. <i>Nature Communications</i> , 2020, 11, 1207.	5.8	52
103	Following the Formation of Silver Nanoparticles Using <i>In Situ</i> X-ray Absorption Spectroscopy. <i>ACS Omega</i> , 2020, 5, 13664-13671.	1.6	8
104	Nanostructured titanium dioxide coatings prepared by Aerosol Assisted Chemical Vapour Deposition (AACVD). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112727.	2.0	20
105	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. <i>Nanoscale</i> , 2020, 12, 20638-20648.	2.8	61
106	Self-healing on mismatched fractured composite surfaces of SiC with a diameter of 180 nm. <i>Nanoscale</i> , 2020, 12, 19617-19627.	2.8	3
107	Aerosol-assisted route to low-E transparent conductive gallium-doped zinc oxide coatings from pre-organized and halogen-free precursor. <i>Chemical Science</i> , 2020, 11, 4980-4990.	3.7	12
108	Multi-scale Investigations of Ni <sub>0.25</sub> V <sub>2</sub> O <sub>5</sub> -NH <sub>2</sub> O Cathode Materials in Aqueous Zinc-ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000058.	10.2	173

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109	Macroscale Superlubricity: Macroscale Superlubricity Enabled by Graphene-Coated Surfaces (Adv. Sci.) Tj ETQq1	10.784314	4 rgBT /Ov
110	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168.	19.8	381
111	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO <sub>2</sub> . Chemistry of Materials, 2020, 32, 1964-1973.	3.2	50
112	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO <sub>2</sub> Thin Films: Theory and Experiment. ACS Applied Materials & Interfaces, 2020, 12, 15348-15361.	4.0	102
113	Adsorption of volatile organic compounds by industrial porous materials: Impact of relative humidity. Microporous and Mesoporous Materials, 2020, 298, 110090.	2.2	47
114	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. Scientific Reports, 2020, 10, 638.	1.6	102
115	Refining Energy Levels in ReS <sub>2</sub> Nanosheets by Low-Valent Transition-Metal Doping for Dual-Boosted Electrochemical Ammonia/Hydrogen Production. Advanced Functional Materials, 2020, 30, 1907376.	7.8	99
116	High-Performance Planar Thin Film Thermochromic Window via Dynamic Optical Impedance Matching. ACS Applied Materials & Interfaces, 2020, 12, 8140-8145.	4.0	22
117	Macroscale Superlubricity Enabled by Graphene-Coated Surfaces. Advanced Science, 2020, 7, 1903239.	5.6	64
118	The applicability of high-speed counter current chromatography to the separation of natural antioxidants. Journal of Chromatography A, 2020, 1623, 461150.	1.8	54
119	Charge carrier transfer in photocatalysis. Interface Science and Technology, 2020, , 103-159.	1.6	2
120	The Role of Phosphate Group in Doped Cobalt Molybdate: Improved Electrocatalytic Hydrogen Evolution Performance. Advanced Science, 2020, 7, 1903674.	5.6	73
121	Flexible and Self-Powered Photodetector Arrays Based on All-Inorganic CsPbBr <sub>3</sub> Quantum Dots. Advanced Materials, 2020, 32, e2000004.	11.1	134
122	Zinc-Ion Batteries: Multi-Scale Investigations of Ni <sub>0.25</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O Cathode Materials in Aqueous Zinc-Ion Batteries (Adv. Energy Mater. 15/2020). Advanced Energy Materials, 2020, 10, 2070068.	10.2	8
123	Ultra high molecular weight polyethylene with incorporated crystal violet and gold nanoclusters is antimicrobial in low intensity light and in the dark. Materials Advances, 2020, 1, 3339-3348.	2.6	3
124	Quantitative SERS Detection of Uric Acid via Formation of Precise Plasmonic Nanojunctions within Aggregates of Gold Nanoparticles and Cucurbit[ <i>n</i> ]uril. Journal of Visualized Experiments, 2020, , .	0.2	1
125	Unprecedented Piezoresistance Coefficient in Strained Silicon Carbide. Nano Letters, 2019, 19, 6569-6576.	4.5	62
126	Influence of Lithium and Lanthanum Treatment on TiO <sub>2</sub> Nanofibers and Their Application in n-i-p Solar Cells. ChemElectroChem, 2019, 6, 3529-3529.	1.7	0



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127	Fabrication of robust superhydrophobic surfaces <i>via</i> aerosol-assisted CVD and thermo-triggered healing of superhydrophobicity by recovery of roughness structures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17604-17612.	5.2	91
128	Dual-scale TiO <sub>2</sub> and SiO <sub>2</sub> particles in combination with a fluoroalkylsilane and polydimethylsiloxane superhydrophobic/superoleophilic coating for efficient solvent-water separation. <i>RSC Advances</i> , 2019, 9, 20332-20340.	1.7	11
129	Slippery Liquid Infused Porous TiO <sub>2</sub> /SnO <sub>2</sub> Nanocomposite Thin Films via Aerosol Assisted Chemical Vapor Deposition with Anti-Icing and Fog Retardant Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41804-41812.	4.0	38
130	Modifying Epoxy Resins to Resist Both Fire and Water. <i>Langmuir</i> , 2019, 35, 14332-14338.	1.6	12
131	Differential Phagocytosis-Based Photothermal Ablation of Inflammatory Macrophages in Atherosclerotic Disease. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41009-41018.	4.0	33
132	Fabrication and characterization of degradable and durable fluoride-free super-hydrophobic cotton fabrics for oil/water separation. <i>Surface and Coatings Technology</i> , 2019, 378, 125079.	2.2	35
133	Robust Superhydrophobic Conical Pillars from Syringe Needle Shape to Straight Conical Pillar Shape for Droplet Pancake Bouncing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45345-45353.	4.0	56
134	Dynamics of Photo-induced Surface Oxygen Vacancies in Metal Oxide Semiconductors Studied Under Ambient Conditions. <i>Advanced Science</i> , 2019, 6, 1901841.	5.6	62
135	Carboxylic Acid Functionalization at the Meso-Position of the Bodipy Core and Its Influence on Photovoltaic Performance. <i>Nanomaterials</i> , 2019, 9, 1346.	1.9	3
136	Gaseous Photocatalytic Oxidation of Formic Acid over TiO <sub>2</sub> : A Comparison between the Charge Carrier Transfer and Light-Assisted Mars-van Krevelen Pathways. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22261-22272.	1.5	13
137	Super-robust superamphiphobic surface with anti-icing property. <i>RSC Advances</i> , 2019, 9, 27702-27709.	1.7	14
138	Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. <i>Chemical Science</i> , 2019, 10, 2592-2597.	3.7	15
139	<i>In vivo</i> and <i>in vitro</i> efficient textile wastewater remediation by <i>Aspergillus niger</i> biosorbent. <i>Nanoscale Advances</i> , 2019, 1, 168-176.	2.2	35
140	One-step synthesis of Ag@PS nanospheres via flash nanoprecipitation. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4713.	1.7	6
141	Influence of Humidity on the NO <sub>2</sub> Sensing Properties of SrCo <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> . <i>Springer Proceedings in Physics</i> , 2019, , 905-911.	0.1	0
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