

Ivan P Parkin

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.

806
papers

32,304
citations

80
h-index

143
g-index

835
ext. papers

36,980
ext. citations

7.6
avg, IF

7.62
L-index

#	Paper	IF	Citations
806	Monitoring Dendrite Formation in Aqueous Zinc Batteries with SH0 Guided Waves. <i>Lecture Notes in Civil Engineering</i> , 2023 , 204-211	0.3	
805	Liquid-microjet photoelectron spectroscopy of the green fluorescent protein chromophore.. <i>Nature Communications</i> , 2022 , 13, 507	17.4	4
804	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	5.6	2
803	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	6.3	0
802	Facile formation of black titania films using an atmospheric-pressure plasma jet. <i>Green Chemistry</i> , 2022 , 24, 2499-2505	10	0
801	Strong robust superhydrophobic C/silicone monolith for photothermal ice removal. <i>Journal of Materials Science</i> , 2022 , 57, 6963-6970	4.3	
800	A Universal Polyiodide Regulation Using Quaternization Engineering toward High Value-Added and Ultra-Stable Zinc-Iodine Batteries.. <i>Advanced Science</i> , 2022 , e2105598	13.6	5
799	Adsorptivity of Some Organic Compounds to Copper Nanoparticles. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2022 , 31, 47-50	0.7	
798	Hydrogenation of Xylenes, Ethylbenzene, and Isopropylbenzene on Ni Nanoparticles. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2022 , 31, 42-46	0.7	
797	Ultra-stretchable and superhydrophobic textile-based bioelectrodes for robust self-cleaning and personal health monitoring. <i>Nano Energy</i> , 2022 , 97, 107160	17.1	6
796	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, 2110016	15.6	21
795	Rechargeable aqueous Zn-based energy storage devices. <i>Joule</i> , 2021 ,	27.8	37
794	CuInS2 Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging (Adv. Mater. Interfaces 20/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170114 ^{4.6}		
793	Investigation of a Biomass Hydrogel Electrolyte Naturally Stabilizing Cathodes for Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 745-754	9.5	22
792	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	6.8	9
791	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	15.6	1
790	Natural Clay-Based Materials for Energy Storage and Conversion Applications. <i>Advanced Science</i> , 2021 , 8, e2004036	13.6	20

789	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	2.2	0
788	Insights on Flexible Zinc-Ion Batteries from Lab Research to Commercialization. <i>Advanced Materials</i> , 2021 , 33, e2007548	24	50
787	A coating-free superhydrophobic sensing material for full-range human motion and microliter droplet impact detection. <i>Chemical Engineering Journal</i> , 2021 , 410, 128418	14.7	7
786	Zinc-Ion Batteries: Insights on Flexible Zinc-Ion Batteries from Lab Research to Commercialization (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170158	24	2
785	Enhancing Hydrogen Evolution Electrocatalytic Performance in Neutral Media via Nitrogen and Iron Phosphide Interactions. <i>Small Science</i> , 2021 , 1, 2100032		12
784	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	1.8	1
783	Robust Protection of III-V Nanowires in Water Splitting by a Thin Compact TiO Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30950-30958	9.5	0
782	Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 301-311	9.3	15
781	Some peculiarities of room-temperature ferromagnetism in ensembles of mixed-phase TiN _x -TiO _y nanoparticles. <i>Materials Research Bulletin</i> , 2021 , 134, 111092	5.1	1
780	Supersaturated bridge-sulfur and vanadium co-doped MoS ₂ nanosheet arrays with enhanced sodium storage capability. <i>Nano Research</i> , 2021 , 14, 74-80	10	17
779	Assessment of GaPSb/Si tandem material association properties for photoelectrochemical cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 221, 110888	6.4	1
778	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	15.6	13
777	Ambient Fabrication of Organic-Inorganic Hybrid Perovskite Solar Cells.. <i>Small Methods</i> , 2021 , 5, e2000744	4.8	23
776	Unprecedented enhancement of wear resistance for epoxy-resin graphene composites. <i>Nanoscale</i> , 2021 , 13, 2855-2867	7.7	15
775	Copper as an antimicrobial agent: recent advances.. <i>RSC Advances</i> , 2021 , 11, 18179-18186	3.7	5
774	The bionic sunflower: a bio-inspired autonomous light tracking photocatalytic system. <i>Energy and Environmental Science</i> , 2021 , 14, 3931-3937	35.4	11
773	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. <i>ACS Energy Letters</i> , 2021 , 6, 395-403	20.1	110
772	Palladium alloys used as electrocatalysts for the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2021 , 14, 2639-2669	35.4	47

771	The effect of Cu dopants on electron transfer to O and the connection with acetone photocatalytic oxidations over nano-TiO. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8300-8308	3.6	3
770	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	7.6	6
769	Bandwidth limits of luminescent solar concentrators as detectors in free-space optical communication systems. <i>Light: Science and Applications</i> , 2021 , 10, 3	16.7	13
768	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO/TiO System as an Archetypical Model. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9781-9793	9.5	8
767	Zn and N Codoped TiO Thin Films: Photocatalytic and Bactericidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10480-10489	9.5	9
766	Multifunctional two-dimensional glassy graphene devices for vis-NIR photodetection and volatile organic compound sensing. <i>Science China Materials</i> , 2021 , 64, 1964-1976	7.1	2
765	Delayed Lubricant Depletion of Slippery Liquid Infused Porous Surfaces Using Precision Nanostructures. <i>Langmuir</i> , 2021 , 37, 10071-10078	4	7
764	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	4	3
763	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO Films. <i>Nano Letters</i> , 2021 , 21, 8348-8354	11.5	10
762	Bioinspired Multifunctional Glass Surfaces through Regenerative Secondary Mask Lithography. <i>Advanced Materials</i> , 2021 , 33, e2102175	24	3
761	CuInS Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100518	4.6	2
760	Kinetics-based design of a flow platform for highly reproducible on demand synthesis of gold nanoparticles with controlled size between 50 and 150nm and their application in SERS and PIERS sensing. <i>Chemical Engineering Journal</i> , 2021 , 423, 129069	14.7	3
759	A study of the interaction of cationic dyes with gold nanostructures.. <i>RSC Advances</i> , 2021 , 11, 17694-17703	9.7	1
758	Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. <i>Advanced Functional Materials</i> , 2021 , 31, 2010445	15.6	40
757	SERS multiplexing of methylxanthine drug isomers via host-guest size matching and machine learning. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12624-12632	7.1	5
756	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5478-5485	9.5	2
755	Particle Size Evolution during the Synthesis of Gold Nanoparticles Using In Situ Time-Resolved UV-Vis Spectroscopy: An Experimental and Theoretical Study Unravelling the Effect of Adsorbed Gold Precursor Species. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27662-27672	3.8	5
754	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. <i>Langmuir</i> , 2020 , 36, 13426-13438	4	15

753	Synergistic interactions of cadmium-free quantum dots embedded in a photosensitised polymer surface: efficient killing of multidrug-resistant strains at low ambient light levels. <i>Nanoscale</i> , 2020 , 12, 10609-10622	7.7	4
752	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	7.1	9
751	N Electroreduction to NH by Selenium Vacancy-Rich ReSe Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13320-13327	16.4	53
750	Effective on-line 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	3.4	7
749	N ₂ Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe ₂ Catalysis at an Abrupt Interface. <i>Angewandte Chemie</i> , 2020 , 132, 13422-13429	3.6	10
748	New Insights into the Fundamental Principle of Semiconductor Photocatalysis. <i>ACS Omega</i> , 2020 , 5, 14847-14856	3.7	5
747	Advances towards programmable droplet transport on solid surfaces and its applications. <i>Chemical Society Reviews</i> , 2020 , 49, 7879-7892	58.5	32
746	Controlling the Thermoelectric Properties of Organometallic Coordination Polymers via Ligand Design. <i>Advanced Functional Materials</i> , 2020 , 30, 2003106	15.6	6
745	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	4.9	22
744	Microstructure and antibacterial efficacy of graphene oxide nanocomposite fibres. <i>Journal of Colloid and Interface Science</i> , 2020 , 571, 239-252	9.3	42
743	Radio-metal cross-linking of alginate hydrogels for non-invasive in vivo imaging. <i>Biomaterials</i> , 2020 , 243, 119930	15.6	13
742	Antibacterial Surfaces with Activity against Antimicrobial Resistant Bacterial Pathogens and Endospores. <i>ACS Infectious Diseases</i> , 2020 , 6, 939-946	5.5	15
741	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. <i>Nature Communications</i> , 2020 , 11, 1207	17.4	26
740	Following the Formation of Silver Nanoparticles Using X-ray Absorption Spectroscopy. <i>ACS Omega</i> , 2020 , 5, 13664-13671	3.9	3
739	Nanostructured titanium dioxide coatings prepared by Aerosol Assisted Chemical Vapour Deposition (AACVD). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 400, 112727	4.7	8
738	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. <i>Nanoscale</i> , 2020 , 12, 20638-20648	3.7	7
737	Self-healing on mismatched fractured composite surfaces of SiC with a diameter of 180 nm. <i>Nanoscale</i> , 2020 , 12, 19617-19627	7.7	2
736	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	9.4	10

735	Multi-Scale Investigations of $\text{Ni}_0.25\text{V}_2\text{O}_5\text{H}_2\text{O}$ Cathode Materials in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000058	21.8	92
734	Macroscale Superlubricity: Macroscale Superlubricity Enabled by Graphene-Coated Surfaces (Adv. Sci. 4/2020). <i>Advanced Science</i> , 2020 , 7, 2070023	13.6	3
733	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. <i>Nature Energy</i> , 2020 , 5, 160-168	62.3	205
732	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO. <i>Chemistry of Materials</i> , 2020 , 32, 1964-1973	9.6	28
731	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO Thin Films: Theory and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15348-15361	9.5	49
730	Adsorption of volatile organic compounds by industrial porous materials: Impact of relative humidity. <i>Microporous and Mesoporous Materials</i> , 2020 , 298, 110090	5.3	23
729	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. <i>Scientific Reports</i> , 2020 , 10, 638	4.9	56
728	Refining Energy Levels in ReS ₂ Nanosheets by Low-Valent Transition-Metal Doping for Dual-Boosted Electrochemical Ammonia/Hydrogen Production. <i>Advanced Functional Materials</i> , 2020 , 30, 1907376	15.6	55
727	High-Performance Planar Thin Film Thermo-chromic Window via Dynamic Optical Impedance Matching. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8140-8145	9.5	11
726	Macroscale Superlubricity Enabled by Graphene-Coated Surfaces. <i>Advanced Science</i> , 2020 , 7, 1903239	13.6	39
725	The applicability of high-speed counter current chromatography to the separation of natural antioxidants. <i>Journal of Chromatography A</i> , 2020 , 1623, 461150	4.5	23
724	Charge carrier transfer in photocatalysis. <i>Interface Science and Technology</i> , 2020 , 103-159	2.3	1
723	The Role of Phosphate Group in Doped Cobalt Molybdate: Improved Electrocatalytic Hydrogen Evolution Performance. <i>Advanced Science</i> , 2020 , 7, 1903674	13.6	42
722	Ultra high molecular weight polyethylene with incorporated crystal violet and gold nanoclusters is antimicrobial in low intensity light and in the dark. <i>Materials Advances</i> , 2020 , 1, 3339-3348	3.3	3
721	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	13	33
720	Room Temperature Synthesis of Phosphine-Capped Lead Bromide Perovskite Nanocrystals without Coordinating Solvents. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 1900391	3.1	20
719	Corrosion of One-Step Superhydrophobic Stainless-Steel Thermal Spray Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1523-1532	9.5	14
718	Ambipolar and Robust WSe ₂ Field-Effect Transistors Utilizing Self-Assembled Edge Oxides. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901628	4.6	5

717	Continuous Single-Phase Synthesis of [Au(Cys)] Nanoclusters and their Photobactericidal Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49021-49029	9.5	3
716	Enabling stable MnO ₂ matrix for aqueous zinc-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22075-22082	13	47
715	Nonmonotonic contactless manipulation of binary droplets via sensing of localized vapor sources on pristine substrates. <i>Science Advances</i> , 2020 , 6,	14.3	7
714	Flexible and Strong Robust Superhydrophobic Monoliths with Antibacterial Property. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 4856-4863	4.3	8
713	Antimicrobial surfaces: A need for stewardship?. <i>PLoS Pathogens</i> , 2020 , 16, e1008880	7.6	5
712	A Hierarchical 3D TiO ₂ /Ni Nanostructure as an Efficient Hole-Extraction and Protection Layer for GaAs Photoanodes. <i>ChemSusChem</i> , 2020 , 13, 6028-6036	8.3	2
711	Probing Mg Intercalation in the Tetragonal Tungsten Bronze Framework VNbO. <i>Inorganic Chemistry</i> , 2020 , 59, 9783-9797	5.1	6
710	Recent Developments in the Field of Explosive Trace Detection. <i>ACS Nano</i> , 2020 , 14, 10804-10833	16.7	48
709	Qualitative Approaches Towards Useful Photocatalytic Materials. <i>Frontiers in Chemistry</i> , 2020 , 8, 817	5	2
708	Probing the electronic and geometric structures of photoactive electrodeposited Cu ₂ O films by X-ray absorption spectroscopy. <i>Journal of Catalysis</i> , 2020 , 389, 483-491	7.3	3
707	An anti-aging polymer electrolyte for flexible rechargeable zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22637-22644	13	18
706	Cocaine by-product detection with metal oxide semiconductor sensor arrays.. <i>RSC Advances</i> , 2020 , 10, 28464-28477	3.7	2
705	Spacer-Defined Intrinsic Multiple Patterning. <i>ACS Nano</i> , 2020 , 14, 12091-12100	16.7	7
704	High-Performance Zinc-Air Batteries with Scalable Metal-Organic Frameworks and Platinum Carbon Black Bifunctional Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42696-42703	9.5	19
703	Thermoresponsive Black VO ₂ /Carbon Nanotube Composite Coatings for Solar Energy Harvesting. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8848-8857	5.6	4
702	Combined Effect of Temperature Induced Strain and Oxygen Vacancy on Metal-Insulator Transition of VO ₂ Colloidal Particles. <i>Advanced Functional Materials</i> , 2020 , 30, 2005311	15.6	16
701	Superhydrophilic/Superhydrophobic patterned surfaces on glass substrate for water harvesting. <i>Journal of Materials Science</i> , 2020 , 55, 498-508	4.3	21
700	Resonant doping for high mobility transparent conductors: the case of Mo-doped In ₂ O ₃ . <i>Materials Horizons</i> , 2020 , 7, 236-243	14.4	30

699	Rapid synthesis of [Au ₂₅ (Cys) ₁₈] nanoclusters via carbon monoxide in microfluidic liquid-liquid segmented flow system and their antimicrobial performance. <i>Chemical Engineering Journal</i> , 2020 , 383, 123176	14.7	10
698	Flexible and Self-Powered Photodetector Arrays Based on All-Inorganic CsPbBr Quantum Dots. <i>Advanced Materials</i> , 2020 , 32, e2000004	24	72
697	Zinc-Ion Batteries: Multi-Scale Investigations of Ni _{0.25} V ₂ O ₅ ·nH ₂ O Cathode Materials in Aqueous Zinc-Ion Batteries (Adv. Energy Mater. 15/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070068	21.8	5
696	Dynamics of Photo-Induced Surface Oxygen Vacancies in Metal-Oxide Semiconductors Studied Under Ambient Conditions. <i>Advanced Science</i> , 2019 , 6, 1901841	13.6	33
695	Gaseous Photocatalytic Oxidation of Formic Acid over TiO ₂ : 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	3.8	8
694	Super-robust superamphiphobic surface with anti-icing property.. <i>RSC Advances</i> , 2019 , 9, 27702-27709	3.7	8
693	Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. <i>Chemical Science</i> , 2019 , 10, 2592-2597	9.4	9
692	In vivo and in vitro efficient textile wastewater remediation by <i>Aspergillus niger</i> biosorbent. <i>Nanoscale Advances</i> , 2019 , 1, 168-176	5.1	18
691	One-step synthesis of Ag@PS nanospheres via flash nanoprecipitation. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4713	3.1	4
690	Influence of Humidity on the NO ₂ Sensing Properties of SrCo _{0.1} Ti _{0.9} O ₃ . <i>Springer Proceedings in Physics</i> , 2019 , 905-911	0.2	
689	Origin of High-Efficiency Photoelectrochemical Water Splitting on Hematite/Functional Nanohybrid Metal Oxide Overlayer Photoanode after a Low Temperature Inert Gas Annealing Treatment. <i>ACS Omega</i> , 2019 , 4, 1449-1459	3.9	16
688	Heterojunction Fe ₂ O ₃ /ZnO Films with Enhanced Photocatalytic Properties Grown by Aerosol-Assisted Chemical Vapour Deposition. <i>Chemistry - A European Journal</i> , 2019 , 25, 11337-11345	4.8	8
687	Thermochromic VO ₂ /BiO ₂ nanocomposite smart window coatings with narrow phase transition hysteresis and transition gradient width. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109944	6.4	27
686	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. <i>Scientific Reports</i> , 2019 , 9, 7549	4.9	21
685	Application of levitation-jet synthesized nickel-based nanoparticles for gas sensing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 244, 81-92	3.1	5
684	Ultrahigh Recovery of Fracture Strength on Mismatched Fractured Amorphous Surfaces of Silicon Carbide. <i>ACS Nano</i> , 2019 , 13, 7483-7492	16.7	47
683	Origin of Performance Enhancement in TiO ₂ -Carbon Nanotube Composite Perovskite Solar Cells. <i>Small Methods</i> , 2019 , 3, 1900164	12.8	26
682	Continuous separation of maslinic and oleanolic acids from olive pulp by high-speed countercurrent chromatography with elution-extrusion mode. <i>Journal of Separation Science</i> , 2019 , 42, 2080-2088	3.4	10

681	High-efficiency bubble transportation in an aqueous environment on a serial wedge-shaped wettability pattern. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13567-13576	13	74
680	Selective Detection of Nitroexplosives Using Molecular Recognition within Self-Assembled Plasmonic Nanojunctions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15769-15776	3.8	20
679	Reactive silica nanoparticles turn epoxy coating from hydrophilic to super-robust superhydrophobic.. <i>RSC Advances</i> , 2019 , 9, 12547-12554	3.7	22
678	High Defect Nanoscale ZnO Films with Polar Facets for Enhanced Photocatalytic Performance. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2881-2889	5.6	20
677	A rugged, self-sterilizing antimicrobial copper coating on ultra-high molecular weight polyethylene: a preliminary study on the feasibility of an antimicrobial prosthetic joint material. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 3310-3318	7.3	7
676	Dispelling the Myth of Passivated Codoping in TiO. <i>Chemistry of Materials</i> , 2019 , 31, 2577-2589	9.6	12
675	Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11618-11626	9.5	35
674	Intrinsic intermediate gap states of TiO ₂ materials and their roles in charge carrier kinetics. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019 , 39, 1-57	16.4	41
673	Functionalised iron oxide nanoparticles for multimodal optoacoustic and magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2212-2219	7.3	12
672	Photoactivable Polymers Embedded with Cadmium-Free Quantum Dots and Crystal Violet: Efficient Bactericidal Activity against Clinical Strains of Antibiotic-Resistant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12367-12378	9.5	22
671	Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8550-8558	13	11
670	Influence of Lithium and Lanthanum Treatment on TiO ₂ Nanofibers and Their Application in n-i-p Solar Cells. <i>ChemElectroChem</i> , 2019 , 6, 3590-3598	4.3	4
669	All-Optical Rotational Ultrasound Imaging. <i>Scientific Reports</i> , 2019 , 9, 5576	4.9	22
668	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. <i>Chemical Communications</i> , 2019 , 55, 5495-5498	5.8	4
667	Rapid synthesis of gold nanoparticles with carbon monoxide in a microfluidic segmented flow system. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 884-890	4.9	20
666	Photoelectrochemical water oxidation of GaP1-xSbx with a direct band gap of 1.65 eV for full spectrum solar energy harvesting. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1720-1729	5.8	7
665	Enhanced performance of ZnO nanoparticle decorated all-inorganic CsPbBr ₃ quantum dot photodetectors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6134-6142	13	41
664	Unprecedented Piezoresistance Coefficient in Strained Silicon Carbide. <i>Nano Letters</i> , 2019 , 19, 6569-6576	11.5	52

663	Influence of Lithium and Lanthanum Treatment on TiO ₂ Nanofibers and Their Application in n-i-p Solar Cells. <i>ChemElectroChem</i> , 2019 , 6, 3529-3529	4.3	
662	Fabrication of robust superhydrophobic surfaces via 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	13	44
661	Dual-scale TiO and SiO particles in combination with a fluoroalkylsilane and polydimethylsiloxane superhydrophobic/superoleophilic coating for efficient solvent-water separation.. <i>RSC Advances</i> , 2019 , 9, 20332-20340	3.7	9
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510	Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2942-9	9.5	56
509	Superhydrophobic Au/polymer nanocomposite films via AACVD/swell encapsulation tandem synthesis procedure. <i>RSC Advances</i> , 2016 , 6, 31146-31152	3.7	8
508	Designing durable and flexible superhydrophobic coatings and its application in oil purification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4107-4116	13	83
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504	White light-activated antimicrobial surfaces: effect of nanoparticles type on activity. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2199-2207	7.3	14
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499	White Light-Activated Antimicrobial Paint using Crystal Violet. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15033-9	9.5	15
498	Synthesis of superhydrophobic polymer/tungsten (VI) oxide nanocomposite thin films. <i>European Journal of Chemistry</i> , 2016 , 7, 139-145	0.6	4
497	Gas Sensing Studies of an n-n Hetero-Junction Array Based on SnO ₂ and ZnO Composites. <i>Chemosensors</i> , 2016 , 4, 3	4	14
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495	Aerosol-assisted fabrication of tin-doped indium oxide ceramic thin films from nanoparticle suspensions. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5739-5746	7.1	8
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