Zhong Chen

List of Publications by Year in Descending Order

613 papers	27,003 citations	86 h-index	139 g-index
654 ext. papers	31,717 ext. citations	6.6 avg, IF	7.62 L-index

#	Paper	IF	Citations
613	Dual-functional underliquid superhydrophobic and superoleophobic stainless steel mesh decorated with Ni3S2 nanorods for continuous oil/water separation. *Surface and Coatings Technology*, **2022**, 434, 128177	4.4	1
612	High-resolution diffusion-order NMR spectroscopy in inhomogeneous magnetic fields via intermolecular zero-quantum coherences.. *Analytica Chimica Acta*, **2022**, 1197, 339508	6.6	
611	Trimetallic oxide-hydroxide porous nanosheets for efficient water oxidation. *Chemical Engineering Journal*, **2022**, 435, 135019	14.7	2
610	A superhydrophobic TPU/CNTs@SiO2 coating with excellent mechanical durability and chemical stability for sustainable anti-fouling and anti-corrosion. *Chemical Engineering Journal*, **2022**, 434, 134605	14.7	12
609	Mechanically robust multifunctional antifogging coating on transparent plastic substrates. *Applied Surface Science*, **2022**, 580, 152307	6.7	0
608	Visible light photodegradation of 2,4-dichlorophenol using nanostructured NaBiS: Kinetics, cytotoxicity, antimicrobial and electrochemical studies of the photocatalyst. *Chemosphere*, **2022**, 287, 132174	8.4	2
607	In Operando Neutron Scattering Multiple-Scale Studies of Lithium-Ion Batteries.. *Small*, **2022**, e2107491	11	2
606	Fast Acquisition of High-Quality Nuclear Magnetic Resonance Pure Shift Spectroscopy via a Deep Neural Network.. *Journal of Physical Chemistry Letters*, **2022**, 2101-2106	6.4	0
605	Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics.. *Nano-Micro Letters*, **2022**, 14, 61	19.5	9
604	Hydrogel materials for sustainable water resources harvesting & treatment: Synthesis, mechanism and applications. *Chemical Engineering Journal*, **2022**, 439, 135756	14.7	8
603	A Mechanically Reliable Transparent Antifogging Coating on Polymeric Lenses. *Advanced Materials Interfaces*, **2022**, 9, 2101864	4.6	2
602	Simultaneous acquirement of pure shift 2D homonuclear correlation spectra.. *Journal of Magnetic Resonance*, **2022**, 339, 107229	3	
601	A durable Ni3S2 coated mesh with reversible transition between superhydrophobicity and underwater superoleophobicity for efficient oil-water separation. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107890	6.8	0
600	Mechanically Robust Anti-Fingerprint Coating on Polycarbonate Substrate. *Applied Surface Science*, **2022**, 153706	6.7	3
599	Rational Design of Electrospun Nanofibers for Gas Purification: Principles, Opportunities, and Challenges. *Chemical Engineering Journal*, **2022**, 137099	14.7	1
598	Hollow Microneedles on a Paper Fabricated by Standard Photolithography for the Screening Test of Prediabetes. *Sensors*, **2022**, 22, 4253	3.8	2
597	Spatially dispersed one-dimensional carbon architecture on oxide framework for oxygen electrochemistry. *Chemical Engineering Journal*, **2021**, 133649	14.7	2

596	Smart surfaces with reversibly switchable wettability: Concepts, synthesis and applications.. *Advances in Colloid and Interface Science*, **2021**, 300, 102584	14.3	8
595	A General Reconstruction Method for Multidimensional Sparse Sampling Nuclear Magnetic Resonance Spectroscopy. *Journal of Physical Chemistry Letters*, **2021**, 12, 10622-10630	6.4	
594	Preparation of superhydrophobic nanoplate iron oxide surface on a carbon steel for anti-wetting applications. *Materials and Design*, **2021**, 211, 110169	8.1	2
593	Superwetting patterned PDMS/PMMA materials by facile one-step electro-spraying for signal expression and liquid transportation. *Chemical Engineering Journal*, **2021**, 431, 133206	14.7	2
592	Robust Superhydrophobic rGO/PPy/PDMS Coatings on a Polyurethane Sponge for Underwater Pressure and Temperature Sensing. *ACS Applied Materials & Interfaces*, **2021**,	9.5	7
591	An environmentally friendly fluorine-free sandwich coating based on a nonwoven fabric for efficient unidirectional water transport. *Chemical Communications*, **2021**, 57, 12623-12626	5.8	2
590	Improvement in Signal-to-Noise Ratio of Liquid-State NMR Spectroscopy via a Deep Neural Network DN-Unet. *Analytical Chemistry*, **2021**, 93, 1377-1382	7.8	5
589	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. *ACS Applied Materials & Interfaces*, **2021**, 13, 67-87	9.5	57
588	Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. *ACS Applied Materials & Interfaces*, **2021**, 13, 4740-4749	9.5	26
587	Tailoring Electronic Structure and Size of Ultrastable Metalated Metal□Organic Frameworks with Enhanced Electroconductivity for High-Performance Supercapacitors. *Angewandte Chemie*, **2021**, 133, 10316-10326	3.6	0
586	Optimization of twin parallel microstrips based nuclear magnetic resonance probe for measuring the kinetics in molecular assembly in ultra-small samples. *Review of Scientific Instruments*, **2021**, 92, 033106	1.7	
585	Tailoring Electronic Structure and Size of Ultrastable Metalated Metal-Organic Frameworks with Enhanced Electroconductivity for High-Performance Supercapacitors. *Angewandte Chemie - International Edition*, **2021**, 60, 10228-10238	16.4	19
584	Cobalt tungsten phosphide with tunable W-doping as highly efficient electrocatalysts for hydrogen evolution reaction. *Nano Research*, **2021**, 14, 4073	10	7
583	Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications. *Advanced Materials*, **2021**, 33, e2004577	24	51
582	A simple data post-processing method for axial peaks free 2D PSYCHEDELIC NMR spectra. *Journal of Magnetic Resonance*, **2021**, 325, 106938	3	0
581	Silicon Anodes: Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications (Adv. Mater. 16/2021). *Advanced Materials*, **2021**, 33, 2170124	24	0
580	A multifunctional and environmentally-friendly method to fabricate superhydrophilic and self-healing coatings for sustainable antifogging. *Chemical Engineering Journal*, **2021**, 409, 128228	14.7	9
579	Hexagonal WO3□0.33H2O Hierarchical Microstructure with Efficient Photocatalytic Degradation Activity. *Catalysts*, **2021**, 11, 496	4	1

578	Amino-rich surface-modified MXene as anode for hybrid aqueous proton supercapacitors with superior volumetric capacity. *Journal of Power Sources*, **2021**, 495, 229790	8.9	6
577	In-situ formation of unsaturated defect sites on converted CoNi alloy/Co-Ni LDH to activate MoS2 nanosheets for pH-universal hydrogen evolution reaction. *Chemical Engineering Journal*, **2021**, 412, 128556	14.7	31
576	Unambiguous and accurate measurement of scalar coupling constants through a selective refocusing NMR experiment. *Analytica Chimica Acta*, **2021**, 1159, 338429	6.6	1
575	High-Resolution Reconstruction for Multidimensional Laplace NMR. *Journal of Physical Chemistry Letters*, **2021**, 12, 5085-5090	6.4	2
574	Structure engineering of Fe-based MOF aerogel by Halloysite Nanotubes for efficient methylene blue adsorption. *Journal of Sol-Gel Science and Technology*, **2021**, 99, 55	2.3	1
573	A breathable and environmentally friendly superhydrophobic coating for anti-condensation applications. *Chemical Engineering Journal*, **2021**, 412, 128725	14.7	13
572	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. *Nature Communications*, **2021**, 12, 3502	17.4	31
571	Janus Particle Preparation through UV-Induced Partial Photodegradation of Spin-Coated Particle Films. *Langmuir*, **2021**, 37, 8167-8176	4	1
570	Solar-assisted isotropically thermoconductive sponge for highly viscous crude oil spill remediation. *IScience*, **2021**, 24, 102665	6.1	9
569	Solar-driven hydrogen generation coupled with urea electrolysis by an oxygen vacancy-rich catalyst. *Chemical Engineering Journal*, **2021**, 414, 128753	14.7	11
568	Experimental investigation of the anti-soiling performances of different wettability of transparent coatings: Superhydrophilic, hydrophilic, hydrophobic and superhydrophobic coatings. *Solar Energy Materials and Solar Cells*, **2021**, 225, 111053	6.4	5
567	Bi2WO6 hollow microspheres with high specific surface area and oxygen vacancies for efficient photocatalysis N2 fixation. *Chemical Engineering Journal*, **2021**, 414, 128827	14.7	22
566	A General Strategy towards Superhydrophobic Self-Cleaning and Anti-Corrosion Metallic Surfaces: An Example with Aluminum Alloy. *Coatings*, **2021**, 11, 788	2.9	5
565	Multiplet analysis by strong-coupling-artifact-suppression 2D J-resolved NMR spectroscopy. *Journal of Chemical Physics*, **2021**, 155, 034202	3.9	0
564	Coupled porosity and heterojunction engineering: MOF-derived porous CoO embedded on TiO nanotube arrays for water remediation. *Chemosphere*, **2021**, 274, 129799	8.4	1
563	Interfacial reinforcement structure design towards ultrastable lithium storage in MoS2-based composited electrode. *Chemical Engineering Journal*, **2021**, 416, 129094	14.7	11
562	The synergistic catalysis on Co nanoparticles and CoNx sites of aniline-modified ZIF derived Co@NCs for oxidative esterification of HMF. *Chinese Chemical Letters*, **2021**, 32, 685-690	8.1	23
561	High-resolution 2-D NMR spectroscopy based on the Radon transform and pure shift technique for studying chemical shifts perturbations. *Magnetic Resonance in Chemistry*, **2021**, 59, 346-353	2.1	0

560	Hydroxyapatite-modified micro/nanostructured titania surfaces with different crystalline phases for osteoblast regulation. *Bioactive Materials*, **2021**, 6, 1118-1129	16.7	16
559	Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. *Journal of Materials Science and Technology*, **2021**, 61, 85-92	9.1	30
558	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. *Journal of Hazardous Materials*, **2021**, 403, 124090	12.8	39
557	Recent advances in fabricating durable superhydrophobic surfaces: a review in the aspects of structures and materials. *Materials Chemistry Frontiers*, **2021**, 5, 1655-1682	7.8	29
556	Rational designed structured superhydrophobic iron oxide surface towards sustainable anti-corrosion and self-cleaning. *Chemical Engineering Journal*, **2021**, 416, 127768	14.7	18
555	Structure and mechanical properties of HNTs/SiBCN ceramic hybrid aerogels. *Ceramics International* , **2021**, 47, 9083-9089	5.1	3
554	Enhanced thermal shrinkage behavior of phenolic-derived carbon aerogel-reinforced by HNTs with superior compressive strength performance. *Ceramics International*, **2021**, 47, 6487-6495	5.1	7
553	Freestanding MoS2@carbonized cellulose aerogel derived from waste cotton for sustainable and highly efficient particulate matter capturing. *Separation and Purification Technology*, **2021**, 254, 117571	8.3	6
552	An Orthogonal-Pattern Absorption-Mode 2D J -Resolved NMR Spectroscopy for Analyses on Complex Samples. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-9	5.2	12
551	Modification of graphene aerogel with titania nanotubes for efficient methylene blue adsorption kinetics. *Journal of Sol-Gel Science and Technology*, **2021**, 97, 271-280	2.3	3
550	Bioinspired structural and functional designs towards interfacial solar steam generation for clean water production. *Materials Chemistry Frontiers*, **2021**, 5, 1510-1524	7.8	14
549	Heterostructured Ternary In2O3/Ag/TiO2 Nanotube Arrays for Simulated Sunlight-Driven Photoelectrocatalytic Hydrogen Generation. *ChemElectroChem*, **2021**, 8, 577-584	4.3	2
548	Microstructure and wear characteristics of in-situ micro/nanoscale niobium carbide reinforced copper composites fabricated through powder metallurgy. *Materials Characterization*, **2021**, 172, 110847	4.9	7
547	Morphology controlled carbon aerogel with enhanced thermal insulation and mechanical properties: a simple route for the regulated synthesis. *Journal of Non-Crystalline Solids*, **2021**, 564, 120828	3.9	3
546	Exfoliation of 2D materials by saponin in water: Aerogel adsorption / photodegradation organic dye. *Chemosphere*, **2021**, 274, 129795	8.4	8
545	Effect of Laminate Cutting and Annealing Treatment on the Magnetic Properties of Fe49Co49V2 Alloy. *IEEE Transactions on Magnetics*, **2021**, 57, 1-13	2	
544	Structural, photocatalytic and electrochemical studies on facile combustion synthesized low-cost nano chromium (III) doped polycrystalline magnesium aluminate spinels. *Journal of Science: Advanced Materials and Devices*, **2021**, 6, 462-471	4.2	5
543	Fog catcher brushes with environmental friendly slippery alumina micro-needle structured surface for efficient fog-harvesting. *Journal of Cleaner Production*, **2021**, 315, 127862	10.3	10

542	Simultaneous determination of multiple coupling networks by high-resolution 2D J-edited NMR spectroscopy. *Analytica Chimica Acta*, **2021**, 1185, 339055	6.6	0
541	A sandwich-like structured superhydrophobic fabric for versatile and highly efficient emulsion separation. *Separation and Purification Technology*, **2021**, 275, 119253	8.3	4
540	Nanostructured NaFeS2 as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. *Chemical Engineering Journal*, **2021**, 426, 131315	14.7	5
539	An effective and low-consumption foam finishing strategy for robust functional fabrics with on-demand special wettability. *Chemical Engineering Journal*, **2021**, 426, 131245	14.7	8
538	In situ recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. *Materials Chemistry Frontiers*, **2021**, 5, 2742-2748	7.8	1
537	Highly Efficient Determination of Complex NMR Multiplet Structures in Inhomogeneous Magnetic Fields. *Analytical Chemistry*, **2021**, 93, 2419-2423	7.8	1
536	Diffusion Analysis on Complex Mixtures under Adverse Magnetic Field Conditions by Spatially-Selective Pure Shift-Based DOSY. *Journal of Physical Chemistry Letters*, **2021**, 12, 1073-1080	6.4	4
535	Improving efficiency of measuring individual H coupling networks by pure shift 2D J-resolved NMR spectroscopy. *Journal of Chemical Physics*, **2020**, 153, 174114	3.9	1
534	Immobilization of well-dispersed Ag nanoparticles on calcium niobate nanosheets as highly active catalyst towards reduction of 4-nitrophenol. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 110, 92-99	5.3	7
533	Boosting resolution in NMR spectroscopy by chemical shift upscaling. *Analytica Chimica Acta*, **2020**, 1110, 109-114	6.6	1
532	NaFeS2 as a new photocatalytic material for the degradation of industrial dyes. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104005	6.8	22
531	Effect of punching edge deformation on the magnetic properties of Fe49-Co49-V2 alloy. *Journal of Magnetism and Magnetic Materials*, **2020**, 510, 166978	2.8	2
530	Enhanced BiFeO/BiFeO/HO heterogeneous system for sulfamethoxazole decontamination: System optimization and degradation pathways. *Journal of Colloid and Interface Science*, **2020**, 577, 54-65	9.3	20
529	Titanium mesh-supported TiO2 nano-film for the photocatalytic degradation of ethylene under a UV-LED. *Ceramics International*, **2020**, 46, 20830-20837	5.1	5
528	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. *Chemical Engineering Journal*, **2020**, 399, 125746	14.7	119
527	Influence of Hole Transport Layers/Perovskite Interfaces on the Hysteresis Behavior of Inverted Perovskite Solar Cells. *ACS Applied Energy Materials*, **2020**, 3, 6391-6399	6.1	0
526	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO Nanotubes. *Small*, **2020**, 16, e2002094	11	26
525	Rapid and Stable Plasma Transformation of Polyester Fabrics for Highly Efficient Oil-Water Separation. *Global Challenges*, **2020**, 4, 1900095	4.3	3

524	Oxygen Evolution Reaction Kinetics: Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations (Small 8/2020). *Small*, **2020**, 16, 2070041	11	1
523	Preparation of phase change microcapsules-aerogels composites and the enhanced thermal properties. *Materials Letters*, **2020**, 268, 127563	3.3	3
522	Vertically-aligned Pt-decorated MoS2 nanosheets coated on TiO2 nanotube arrays enable high-efficiency solar-light energy utilization for photocatalysis and self-cleaning SERS devices. *Nano Energy*, **2020**, 71, 104579	17.1	54
521	Preparation of Janus Titanium Dioxide Particles via Ultraviolet Irradiation of Pickering Emulsions. *Advanced Materials Interfaces*, **2020**, 7, 1901961	4.6	5
520	Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations. *Small*, **2020**, 16, e1907029	11	23
519	Janus-like particles prepared through partial UV irradiation at the water/oil interface and their encapsulation capabilities. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 589, 124460	5.1	6
518	Fully Exploiting the Power of 2D NMR -Resolved Spectroscopy. *Analytical Chemistry*, **2020**, 92, 6893-6899	7.8	2
517	Nanostructured TiO2 for light-driven CO2 conversion into solar fuels. *APL Materials*, **2020**, 8, 040914	5.7	15
516	Facile fabrication of Fe-doped SiCN ceramic microspheres with flower-like morphology and the infrared extinction property. *Journal of Sol-Gel Science and Technology*, **2020**, 94, 461-467	2.3	6
515	NMR Spectroelectrochemistry in Studies of Dopamine Oxidation. *Electrochemistry*, **2020**, 88, 200-204	1.2	4
514	Charged graphene aerogel filter enabled superior particulate matter removal efficiency in harsh environment. *Chemical Engineering Journal*, **2020**, 395, 125086	14.7	22
513	Highly efficient visible-light-driven photocatalytic hydrogen evolution by all-solid-state Z-scheme CdS/QDs/ZnIn2S4 architectures with MoS2 quantum dots as solid-state electron mediator. *Applied Surface Science*, **2020**, 504, 144406	6.7	38
512	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. *Angewandte Chemie*, **2020**, 132, 10383-10386	3.6	7
511	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. *Angewandte Chemie - International Edition*, **2020**, 59, 10297-10300	16.4	43
510	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. *ACS Omega*, **2020**, 5, 986-994	3.9	39
509	First-principles investigation of the electronic properties of the BiO(101)/BiVO(010) heterojunction towards more efficient solar water splitting. *Physical Chemistry Chemical Physics*, **2020**, 22, 2449-2456	3.6	12
508	Progress on particulate matter filtration technology: basic concepts, advanced materials, and performances. *Nanoscale*, **2020**, 12, 437-453	7.7	61
507	An experimental and theoretical approach to investigate correlation between electromagnetic properties of doped ferrites & its interfacial reactivity with dopamine. *Applied Surface Science*, **2020**, 506, 144945	6.7	0

506	A semi-interpenetrating network ionic hydrogel for strain sensing with high sensitivity, large strain range, and stable cycle performance. *Chemical Engineering Journal*, **2020**, 385, 123912	14.7	58
505	Enhanced tensile properties and corrosion resistance of stainless steel with copper-coated graphene fillers. *Journal of Materials Research and Technology*, **2020**, 9, 404-412	5.5	4
504	Porous cobalt@N-doped carbon derived from chitosan for oxidative esterification of 5-Hydroxymethylfurfural: The roles of zinc in the synthetic and catalytic process. *Molecular Catalysis*, **2020**, 482, 110695	3.3	11
503	Metal–organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. *Journal of Materials Chemistry A*, **2020**, 8, 2934-2961	13	93
502	SiBCN ceramic aerogel/graphene composites prepared via sol-gel infiltration process and polymer-derived ceramics (PDCs) route. *Ceramics International*, **2020**, 46, 7001-7008	5.1	8
501	High-Resolution Reconstruction for Diffusion-Ordered NMR Spectroscopy. *Analytical Chemistry*, **2020**, 92, 634-639	7.8	3
500	Clarifying the Correlation of Ice Adhesion Strength with Water Wettability and Surface Characteristics. *Langmuir*, **2020**, 36, 12190-12201	4	2
499	Ag–Sn Transient Liquid Phase Bonding for High Temperature Electronic Packaging: Effect of Ag Content. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2020**, 10, 1604-1610	1.7	0
498	Bimetallic Ni-Co nanoparticles on SiO2 as robust catalyst for CO methanation: Effect of homogeneity of Ni-Co alloy. *Applied Catalysis B: Environmental*, **2020**, 278, 119307	21.8	23
497	Microencapsulated phase change materials composited Al2O3–SiO2 aerogel and the thermal regulation properties. *Journal of Sol-Gel Science and Technology*, **2020**, 96, 627-635	2.3	2
496	Silicon-Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solid–Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO2 Nanotubes (Small 30/2020). *Small*, **2020**, 16, 2070169	11	
495	Hydrophobization of fully bio-based epoxy polymers using water as solvent: Effect of additives. *European Polymer Journal*, **2020**, 140, 110043	5.2	3
494	Sol-gel synthesis of highly reproducible WO3 photoanodes for solar water oxidation. *Science China Materials*, **2020**, 63, 2261-2271	7.1	4
493	Elucidating the sources of activity and stability of FeP electrocatalyst for hydrogen evolution reactions in acidic and alkaline media. *Applied Catalysis B: Environmental*, **2020**, 260, 118156	21.8	37
492	Durable easy-cleaning and antibacterial cotton fabrics using fluorine-free silane coupling agents and CuO nanoparticles. *Nano Materials Science*, **2020**, 2, 281-291	10.2	22
491	TiO2 nanotube arrays decorated with Au and Bi2S3 nanoparticles for efficient Fe3+ ions detection and dye photocatalytic degradation. *Journal of Materials Science and Technology*, **2020**, 39, 28-38	9.1	20
490	Mechanistic Study of Monolayer NiP2 (100) toward Solar Hydrogen Production. *Solar Rrl*, **2020**, 4, 1900360	7.1	3
489	Atomistic simulation study of GO/HKUST-1 MOF membranes for seawater desalination via pervaporation. *Applied Surface Science*, **2020**, 503, 144198	6.7	25

488	A PDMS-in-water emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. *Nanoscale Horizons*, **2020**, 5, 65-73	10.8	107
487	Hydrogen Production: Light-Driven Sustainable Hydrogen Production Utilizing TiO2 Nanostructures: A Review (Small Methods 1/2019). *Small Methods*, **2019**, 3, 1800053	12.8	3
486	The Self-Passivation Mechanism in Degradation of BiVO Photoanode. *IScience*, **2019**, 19, 976-985	6.1	27
485	Effect of fiber surface functionalization on shear behavior at carbon fiber/epoxy interface through molecular dynamics analysis. *Composites Part A: Applied Science and Manufacturing*, **2019**, 126, 105611	8.4	19
484	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oil water separation ability. *Journal of Materials Chemistry A*, **2019**, 7, 2122-2128	13	156
483	In vivo and in vitro efficient textile wastewater remediation by Aspergillus niger biosorbent. *Nanoscale Advances*, **2019**, 1, 168-176	5.1	18
482	Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. *Advanced Materials*, **2019**, 31, e1806314	24	139
481	Removal of chlorobenzene using a sequential adsorption plasma catalytic system over Ag-, Ce- and Mn-modified activated carbon catalysts. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 1788-1799	3.5	5
480	Effect of a fluoroalkyl-functional curing agent on the wettability, thermal and mechanical properties of hydrophobic biobased epoxy coatings. *Surface and Coatings Technology*, **2019**, 362, 274-281	4.4	8
479	Particulate Matter Capturing via Naturally Dried ZIF-8/Graphene Aerogels under Harsh Conditions. *IScience*, **2019**, 16, 133-144	6.1	39
478	Robust amphiprotic konjac glucomannan cross-linked chitosan aerogels for efficient water remediation. *Cellulose*, **2019**, 26, 6785-6796	5.5	13
477	4D printing and stimuli-responsive materials in biomedical aspects. *Acta Biomaterialia*, **2019**, 92, 19-36	10.8	91
476	Strategies of Anode Materials Design towards Improved Photoelectrochemical Water Splitting Efficiency. *Coatings*, **2019**, 9, 309	2.9	8
475	Stable Active Sites on Ni12P5 Surfaces for the Hydrogen Evolution Reaction. *Energy Technology*, **2019**, 7, 1900013	3.5	5
474	Green Synthesis of Robust Superhydrophobic Antibacterial and UV-Blocking Cotton Fabrics by a Dual-Stage Silanization Approach. *Advanced Materials Interfaces*, **2019**, 6, 1900032	4.6	19
473	Icephobic materials: Fundamentals, performance evaluation, and applications. *Progress in Materials Science*, **2019**, 103, 509-557	42.2	135
472	Environmental Remediation: Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources (Adv. Mater. 15/2019). *Advanced Materials*, **2019**, 31, 1970110	24	4
471	Sorption of Eu (III) onto Nano-Sized H-Titanates of Different Structures. *Applied Sciences (Switzerland)*, **2019**, 9, 697	2.6	2

470	Mask-less preparation of Janus particles through ultraviolet irradiation on hydrophobic particles assembled at the air-water interface. *Journal of Colloid and Interface Science*, **2019**, 546, 285-292	9.3	8
469	Mesoporous SiO2/BiVO4/CuO nanospheres for Z-scheme, visible light aerobic C□N coupling and dehydrogenation. *Applied Materials Today*, **2019**, 15, 192-202	6.6	21
468	Mechanically robust hydrophobic bio-based epoxy coatings for anti-corrosion application. *Surface and Coatings Technology*, **2019**, 363, 43-50	4.4	48
467	A Source of Error in Photoanode Evaluation. *Joule*, **2019**, 3, 305-310	27.8	1
466	Design and durability study of environmental-friendly room-temperature processable icephobic coatings. *Chemical Engineering Journal*, **2019**, 355, 901-909	14.7	40
465	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. *Chemical Engineering Journal*, **2019**, 355, 290-298	14.7	120
464	Application of AlMgGaLi foil for joining copper to SiCp/Al-MMCs for high-temperature and high-power electronics. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	2
463	Transparent Antibacterial Nanofiber Air Filters with Highly Efficient Moisture Resistance for Sustainable Particulate Matter Capture. *IScience*, **2019**, 19, 214-223	6.1	62
462	Waterborne bio-based epoxy coatings for the corrosion protection of metallic substrates. *Progress in Organic Coatings*, **2019**, 136, 105265	4.8	13
461	Pushing resolution limits for extracting H-H scalar coupling constants by a resolution-enhanced selective refocusing method. *Journal of Chemical Physics*, **2019**, 150, 184202	3.9	3
460	A pure shift and spin echo based approach for high-resolution diffusion-ordered NMR spectroscopy. *Journal of Magnetic Resonance*, **2019**, 305, 209-218	3	5
459	Catalytically Active Sites on NiP for Efficient Hydrogen Evolution Reaction From Atomic Scale Calculation. *Frontiers in Chemistry*, **2019**, 7, 444	5	10
458	Recent Progress of Polysaccharide-Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. *Advanced Materials Interfaces*, **2019**, 6, 1900761	4.6	103
457	Rapid and Controllable Design of Robust Superwettable Microchips by a Click Reaction for Efficient -Phthalaldehyde and Glucose Detection. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6186-6195	5.5	3
456	Solvent-Free Synthesis and Hydrophobization of Biobased Epoxy Coatings for Anti-Icing and Anticorrosion Applications. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19131-19141	8.3	22
455	High-Resolution Probing of Heterogeneous Samples by Spatially Selective Pure Shift NMR Spectroscopy. *Journal of Physical Chemistry Letters*, **2019**, 10, 7356-7361	6.4	4
454	PE-SERF: A sensitivity-improved experiment to measure J in crowded spectra. *Journal of Magnetic Resonance*, **2019**, 308, 106590	3	5
453	Serum metabolomic analysis of the effect of exercise on nonalcoholic fatty liver disease. *Endocrine Connections*, **2019**, 8, 299-308	3.5	6

452	High Resolution Nuclear Magnetic Resonance Spectroscopy on Biological Tissue and Metabolomics. *Current Medicinal Chemistry*, **2019**, 26, 2190-2207	4.3	2
451	Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). *Angewandte Chemie*, **2019**, 131, 9798-9813	3.6	33
450	Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). *Angewandte Chemie - International Edition*, **2019**, 58, 9696-9711	16.4	143
449	Bioinspired Soot-Deposited Janus Fabrics for Sustainable Solar Steam Generation with Salt-Rejection. *Global Challenges*, **2019**, 3, 1800117	4.3	42
448	Preparation of FeBTC/silica aerogels by a co-sol-gel process for organic pollutant adsorption. *Materials Research Express*, **2019**, 6, 1250g7	1.7	2
447	Controllable synthesis of carbon nanosheets derived from oxidative polymerisation of m-phenylenediamine. *Journal of Colloid and Interface Science*, **2019**, 533, 437-444	9.3	4
446	Light-Driven Sustainable Hydrogen Production Utilizing TiO2 Nanostructures: A Review. *Small Methods*, **2019**, 3, 1800184	12.8	91
445	Stearic acid-coated superhydrophobic Fe2O3/Fe3O4 composite film on N80 steel for corrosion protection. *Surface and Coatings Technology*, **2019**, 359, 47-54	4.4	18
444	Liquid mobility on superwettable surfaces for applications in energy and the environment. *Journal of Materials Chemistry A*, **2019**, 7, 38-63	13	117
443	When superhydrophobic coatings are icephobic: Role of surface topology. *Surface and Coatings Technology*, **2019**, 358, 207-214	4.4	44
442	Polydopamine-Inspired Design and Synthesis of Visible-Light-Driven Ag @elongated TiO2 NTs Core–Shell Nanocomposites for Sustainable Hydrogen Generation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 558-568	8.3	34
441	Versatile, Robust, and Facile Approach for in Situ Monitoring Electrocatalytic Processes through Liquid Electrochemical NMR Spectroscopy. *Analytical Chemistry*, **2019**, 91, 1686-1691	7.8	14
440	Reducing aggregation caused quenching effect through co-assembly of PAH chromophores and molecular barriers. *Nature Communications*, **2019**, 10, 169	17.4	178
439	Multifunctional superhydrophobic composite materials with remarkable mechanochemical robustness, stain repellency, oil-water separation and sound-absorption properties. *Chemical Engineering Journal*, **2019**, 358, 1610-1619	14.7	42
438	Defective black Ti3+ self-doped TiO2 and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. *Applied Surface Science*, **2019**, 467-468, 45-55	6.7	49
437	Durable Waterborne Hydrophobic Bio-Epoxy Coating with Improved Anti-Icing and Self-Cleaning Performance. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 641-649	8.3	52
436	The role of powder layer thickness on the quality of SLM printed parts. *Archives of Civil and Mechanical Engineering*, **2018**, 18, 948-955	3.4	66
435	Progress in TiO nanotube coatings for biomedical applications: a review. *Journal of Materials Chemistry B*, **2018**, 6, 1862-1886	7.3	94

434	Probing the Performance Limitations in Thin-Film FeVO4 Photoanodes for Solar Water Splitting. *Journal of Physical Chemistry C*, **2018**, 122, 9773-9782	3.8	24
433	An investigation on the role of W doping in BiVO photoanodes used for solar water splitting. *Physical Chemistry Chemical Physics*, **2018**, 20, 13637-13645	3.6	23
432	MoS Quantum Dots@TiO Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. *ChemSusChem*, **2018**, 11, 1708-1721	8.3	65
431	Anisotropic Electronic Characteristics, Adsorption, and Stability of Low-Index BiVO Surfaces for Photoelectrochemical Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 5475-5484	9.5	67
430	Preparation of magnetically recoverable bentonite-FeO-MnO composite particles for Cd(II) removal from aqueous solutions. *Journal of Colloid and Interface Science*, **2018**, 513, 748-759	9.3	44
429	Rational design of materials interface at nanoscale towards intelligent oil-water separation. *Nanoscale Horizons*, **2018**, 3, 235-260	10.8	192
428	Graphene aerogels for efficient energy storage and conversion. *Energy and Environmental Science*, **2018**, 11, 772-799	35.4	272
427	A theoretical study on the surface and interfacial properties of Ni3P for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 7827-7834	13	36
426	Supercapacitive performance of single phase CuO nanosheet arrays with ultra-long cycling stability. *Journal of Alloys and Compounds*, **2018**, 753, 731-739	5.7	9
425	Combining Fourier phase encoding and broadband inversion toward J-edited spectra. *Journal of Magnetic Resonance*, **2018**, 291, 1-7	3	3
424	Damage advancement behavior in braided composite structures for mini aerial vehicles. *Mechanics of Advanced Materials and Structures*, **2018**, 25, 889-900	1.8	2
423	Rational construction of highly transparent superhydrophobic coatings based on a non-particle, fluorine-free and water-rich system for versatile oil-water separation. *Chemical Engineering Journal*, **2018**, 333, 621-629	14.7	160
422	Mechanically Robust Transparent Anti-Icing Coatings: Roles of Dispersion Status of Titanate Nanotubes. *Advanced Materials Interfaces*, **2018**, 5, 1800773	4.6	11
421	A mechanically robust transparent coating for anti-icing and self-cleaning applications. *Journal of Materials Chemistry A*, **2018**, 6, 16043-16052	13	67
420	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO4 photoanode by W□i codoping. *Journal of Materials Chemistry A*, **2018**, 6, 16965-16974	13	22
419	Boosting heterojunction interaction in electrochemical construction of MoS2 quantum dots@TiO2 nanotube arrays for highly effective photoelectrochemical performance and electrocatalytic hydrogen evolution. *Electrochemistry Communications*, **2018**, 93, 152-157	5.1	26
418	Theoretical Insights into the Solvent Polarity Effect on the Quality of Self-Assembled N-Octadecanethiol Monolayers on Cu (111) Surfaces. *Molecules*, **2018**, 23,	4.8	2
417	Rational Design of the Nanostructure Features on Superhydrophobic Surfaces for Enhanced Dynamic Water Repellency. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9958-9965	8.3	11

416	Multidimensional TiO 2 nanostructured catalysts for sustainable H 2 generation **2018**, 237-288		
415	The Influence of Ti Doping on Morphology and Photoelectrochemical Properties of Hematite Grown from Aqueous Solution for Water Splitting. *Energy Technology*, **2018**, 6, 2188-2199	3.5	14
414	Effect of the size of carbon nanotubes (CNTs) on the microstructure and mechanical strength of CNTs-doped composite Sn0.3Ag0.7Cu-CNTs solder. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 727, 160-169	5.3	30
413	High Resolution P NMR Spectroscopy Generates a Quantitative Evolution Profile of Phosphorous Translocation in Germinating Sesame Seed. *Scientific Reports*, **2018**, 8, 359	4.9	3
412	High-resolution methods for the measurement of scalar coupling constants. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2018**, 109, 135-159	10.4	14
411	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. *Journal of Materials Chemistry A*, **2018**, 6, 17633-17641	13	80
410	Damage accumulation in braided textiles-reinforced composites under repeated impacts: Experimental and numerical studies. *Composite Structures*, **2018**, 204, 256-267	5.3	13
409	Co-solvent induced self-roughness superhydrophobic coatings with self-healing property for versatile oil-water separation. *Applied Surface Science*, **2018**, 459, 512-519	6.7	27
408	Mechanically Resistant and Sustainable Cellulose-Based Composite Aerogels with Excellent Flame Retardant, Sound-Absorption, and Superantiwetting Ability for Advanced Engineering Materials. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 927-936	8.3	77
407	Transparent icephobic coatings using bio-based epoxy resin. *Materials and Design*, **2018**, 140, 516-523	8.1	39
406	Scale-Up of BiVO4 Photoanode for Water Splitting in a Photoelectrochemical Cell: Issues and Challenges. *Energy Technology*, **2018**, 6, 100-109	3.5	35
405	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. *Advanced Functional Materials*, **2018**, 28, 1707415	15.6	146
404	Enhanced Charge Transport and Increased Active Sites on □FeO (110) Nanorod Surface Containing Oxygen Vacancies for Improved Solar Water Oxidation Performance. *ACS Omega*, **2018**, 3, 14973-14980	3.9	18
403	The electrochemical oxidation of hydroquinone and catechol through polyaniline and poly(aspartic acid) thin films: A comparative study. *AIP Advances*, **2018**, 8, 095007	1.5	7
402	Advanced colloidal lithography: From patterning to applications. *Nano Today*, **2018**, 22, 36-61	17.9	89
401	Corrosion Protection of N80 Steel in Hydrochloric Acid Medium Using Mixed C15H15NO and Na2WO4 Inhibitors. *Coatings*, **2018**, 8, 315	2.9	5
400	Bioinspired fabrication SERS substrate based on superwettable patterned platform for multiphase high-sensitive detecting. *Composites Communications*, **2018**, 10, 151-156	6.7	13
399	Laterally pre-compressed SiC tiles against long rod impact. *Defence Technology*, **2018**, 14, 585-589	3	4

398	Rational Construction of LaFeO3 Perovskite Nanoparticle-Modified TiO2 Nanotube Arrays for Visible-Light Driven Photocatalytic Activity. *Coatings*, **2018**, 8, 374	2.9	11
397	HNTs/SiO2 dual-network aerogels with improved strength and thermal insulation. *Journal of Sol-Gel Science and Technology*, **2018**, 88, 519-527	2.3	6
396	SiBCN-ZrO2 hybrid ceramic aerogels through the polymer-derived ceramics (PDCs) route. *Ceramics International*, **2018**, 44, 22991-22996	5.1	10
395	Material Structure and Mechanical Properties of Silicon Nitride and Silicon Oxynitride Thin Films Deposited by Plasma Enhanced Chemical Vapor Deposition. *Surfaces*, **2018**, 1, 59-72	2.9	18
394	Formation of superhydrophobic micro-nanostructured iron oxide for corrosion protection of N80 steel. *Materials and Design*, **2018**, 160, 84-94	8.1	27
393	Mechanical and interfacial behavior of single mullite fiber and mullite fiber-based porous ceramics. *Ceramics International*, **2018**, 44, 14446-14456	5.1	6
392	A Cobalt-Based Metal-Organic Framework as Cocatalyst on BiVO Photoanode for Enhanced Photoelectrochemical Water Oxidation. *ChemSusChem*, **2018**, 11, 2710-2716	8.3	50
391	A preliminary study on the preparation of nanostructured Ti-doped Li4SiO4 pebbles by two-step sintering process. *Ceramics International*, **2018**, 44, 16209-16213	5.1	9
390	Clarifying the Roles of Oxygen Vacancy in W-Doped BiVO4 for Solar Water Splitting. *ACS Applied Energy Materials*, **2018**, 1, 3410-3419	6.1	49
389	Understanding the Role of Dynamic Wettability for Condensate Microdrop Self-Propelling Based on Designed Superhydrophobic TiO Nanostructures. *Small*, **2017**, 13, 1600687	11	89
388	Accelerating two-dimensional nuclear magnetic resonance correlation spectroscopy via selective coherence transfer. *Journal of Chemical Physics*, **2017**, 146, 014202	3.9	4
387	Water Splitting: One-dimensional TiO2 Nanotube Photocatalysts for Solar Water Splitting (Adv. Sci. 1/2017). *Advanced Science*, **2017**, 4,	13.6	5
386	A review of TiO 2 nanostructured catalysts for sustainable H 2 generation. *International Journal of Hydrogen Energy*, **2017**, 42, 8418-8449	6.7	260
385	Immobilization of Pt Nanoparticles via Rapid and Reusable Electropolymerization of Dopamine on TiO Nanotube Arrays for Reversible SERS Substrates and Nonenzymatic Glucose Sensors. *Small*, **2017**, 13, 1604240	11	91
384	Controllable Superhydrophobic Coating on Cotton Fabric by UV Induced Thiol-ene Reaction for Wettability Patterning and Device Metallization. *Advanced Materials Interfaces*, **2017**, 4, 1700268	4.6	21
383	Understanding the bonding mechanisms of directly sputtered copper thin film on an alumina substrate. *Thin Solid Films*, **2017**, 634, 6-14	2.2	6
382	Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. *Journal of Materials Chemistry A*, **2017**, 5, 11873-11881	13	147
381	3D Au-decorated BiMoO6 nanosheet/TiO2 nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. *Journal of Materials Chemistry A*, **2017**, 5, 16412-16421	13	125

380	Bioinspired Mechano-Sensitive Macroporous Ceramic Sponge for Logical Drug and Cell Delivery. *Advanced Science*, **2017**, 4, 1600410	13.6	13
379	The disparity of corrosion resistance between Ni/Au and NiP/Au electrical contacts in mixed flowing and salt spray tests. *Journal of Materials Science*, **2017**, 52, 9834-9849	4.3	2
378	Facile construction of robust fluorine-free superhydrophobic TiO 2 @fabrics with excellent anti-fouling, water-oil separation and UV-protective properties. *Materials and Design*, **2017**, 128, 1-8	8.1	86
377	Progressive failure prediction of a landing gear structure of braided composites. *Composite Structures*, **2017**, 161, 407-418	5.3	17
376	Recent progress in two-dimensional COFs for energy-related applications. *Journal of Materials Chemistry A*, **2017**, 5, 14463-14479	13	185
375	Ultrahigh-Resolution NMR Spectroscopy for Rapid Chemical and Biological Applications in Inhomogeneous Magnetic Fields. *Analytical Chemistry*, **2017**, 89, 7115-7122	7.8	9
374	Bouncing dynamics of impact droplets on the convex superhydrophobic surfaces. *Applied Physics Letters*, **2017**, 110, 221601	3.4	45
373	Experimental and numerical investigation of process-induced deformations of glass/epoxy wind turbine blade spar cap. *Journal of Composite Materials*, **2017**, 51, 3791-3806	2.7	0
372	New insights into the photocatalytic activity of 3-D core-shell P25@silica nanocomposites: impact of mesoporous coating. *Dalton Transactions*, **2017**, 46, 4994-5002	4.3	19
371	Corrugated graphene layers for sea water desalination using capacitive deionization. *Physical Chemistry Chemical Physics*, **2017**, 19, 8552-8562	3.6	20
370	In Situ Monitoring Potential-Dependent Electrochemical Process by Liquid NMR Spectroelectrochemical Determination: A Proof-of-Concept Study. *Analytical Chemistry*, **2017**, 89, 3810-3813	7.8	16
369	A facile approach to prepare crumpled CoTMPyP/electrochemically reduced graphene oxide nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. *Applied Surface Science*, **2017**, 399, 535-541	6.7	19
368	Multifunctional superamphiphobic fabrics with asymmetric wettability for one-way fluid transport and templated patterning. *Cellulose*, **2017**, 24, 1129-1141	5.5	38
367	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. *Small*, **2017**, 13, 1602992	11	187
366	Unique P?Co?N Surface Bonding States Constructed on g-C3N4 Nanosheets for Drastically Enhanced Photocatalytic Activity of H2 Evolution. *Advanced Functional Materials*, **2017**, 27, 1604328	15.6	266
365	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. *Angewandte Chemie*, **2017**, 129, 15043-15048	3.6	15
364	Uniform carbon dots@TiO nanotube arrays with full spectrum wavelength light activation for efficient dye degradation and overall water splitting. *Nanoscale*, **2017**, 9, 16046-16058	7.7	77
363	Comparative study of Keggin-type polyoxometalate pillared layered double hydroxides via two synthetic routes: Characterization and catalytic behavior in green epoxidation of cyclohexene. *Applied Clay Science*, **2017**, 150, 210-216	5.2	15

362	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. *Angewandte Chemie - International Edition*, **2017**, 56, 14847-14852	16.4	71
361	Braided textile composites for sports protection: Energy absorption and delamination in impact modelling. *Materials and Design*, **2017**, 136, 258-269	8.1	32
360	Enhancing creep resistance of SnBi solder alloy with non-reactive nano fillers: A study using nanoindentation. *Journal of Alloys and Compounds*, **2017**, 729, 498-506	5.7	13
359	Graphene membranes with nanoslits for seawater desalination via forward osmosis. *Physical Chemistry Chemical Physics*, **2017**, 19, 30551-30561	3.6	30
358	Bioinspired Surfaces with Superwettability for Anti-Icing and Ice-Phobic Application: Concept, Mechanism, and Design. *Small*, **2017**, 13, 1701867	11	145
357	Identifying Key Factors towards Highly Reflective Silver Coatings. *Advances in Materials Science and Engineering*, **2017**, 2017, 1-12	1.5	10
356	Modelling of Damage Evolution in Braided Composites: Recent Developments. *Mechanics of Advanced Materials and Modern Processes*, **2017**, 3,	2.2	9
355	Enhanced photoelectrochemical water splitting performance using morphology-controlled BiVO with W doping. *Beilstein Journal of Nanotechnology*, **2017**, 8, 2640-2647	3	16
354	A novel in situ electrochemical NMR cell with a palisade gold film electrode. *AIP Advances*, **2017**, 7, 085205	1.5	11
353	Anti-Icing Performance of Superhydrophobic Texture Surfaces Depending on Reference Environments. *Advanced Materials Interfaces*, **2017**, 4, 1700836	4.6	65
352	The prediction of elastic modulus of the mullite fiber network based on the actual structure architecture. *Ceramics International*, **2017**, 43, 16107-16113	5.1	2
351	Rational design of multi-layered superhydrophobic coating on cotton fabrics for UV shielding, self-cleaning and oil-water separation. *Materials and Design*, **2017**, 134, 342-351	8.1	119
350	A discrete Fourier-encoded, diagonal-free experiment to simplify homonuclear 2D NMR correlations. *Journal of Chemical Physics*, **2017**, 147, 034201	3.9	2
349	Robust translucent superhydrophobic PDMS/PMMA film by facile one-step spray for self-cleaning and efficient emulsion separation. *Chemical Engineering Journal*, **2017**, 330, 26-35	14.7	169
348	Water-Soluble Sericin Protein Enabling Stable Solid-Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. *Advanced Materials*, **2017**, 29, 1701828	24	114
347	Phosphonate-Based Metal□Organic Framework Derived Co□□ Hybrid as an Efficient Electrocatalyst for Oxygen Evolution Reaction. *ACS Catalysis*, **2017**, 7, 6000-6007	13.1	126
346	Theoretical Insight into the Mechanism of Photoelectrochemical Oxygen Evolution Reaction on BiVO4 Anode with Oxygen Vacancy. *Journal of Physical Chemistry C*, **2017**, 121, 18702-18709	3.8	64
345	General Two-Dimensional Absorption-Mode J-Resolved NMR Spectroscopy. *Analytical Chemistry*, **2017**, 89, 12646-12651	7.8	13

344	A simultaneous multi-slice selective J-resolved experiment for fully resolved scalar coupling information. *Journal of Magnetic Resonance*, **2017**, 282, 27-31	3	9
343	Creep behavior of SnBi solder alloys at elevated temperatures studied by nanoindentation. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 4114-4124	2.1	16
342	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. *Journal of Materials Chemistry A*, **2017**, 5, 31-55	13	394
341	New insight into the roles of oxygen vacancies in hematite for solar water splitting. *Physical Chemistry Chemical Physics*, **2017**, 19, 1074-1082	3.6	59
340	Structural, compositional and hardness properties of hydrogenated amorphous carbon nitride thin films synthesized by dense plasma focus device. *Surface and Interface Analysis*, **2017**, 49, 548-553	1.5	9
339	One-dimensional TiO Nanotube Photocatalysts for Solar Water Splitting. *Advanced Science*, **2017**, 4, 1600152	13.2	295
338	Fracture Toughness and Elastic Modulus of Epoxy-Based Nanocomposites with Dopamine-Modified Nano-Fillers. *Materials*, **2017**, 10,	3.5	9
337	Photocatalytic and Adsorption Performances of Faceted Cuprous Oxide (CuO) Particles for the Removal of Methyl Orange (MO) from Aqueous Media. *Molecules*, **2017**, 22,	4.8	58
336	Durable antibacterial and UV-protective Ag/TiO@ fabrics for sustainable biomedical application. *International Journal of Nanomedicine*, **2017**, 12, 2593-2606	7.3	66
335	Fabrication of a micro-nanostructured superhydrophobic aluminum surface with excellent corrosion resistance and anti-icing performance. *RSC Advances*, **2016**, 6, 79389-79400	3.7	44
334	Highly Flexible and Porous Nanoparticle-Loaded Films for Dye Removal by Graphene Oxide-Fungus Interaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 34638-34647	9.5	54
333	Measuring J values with a selective constant-time 2D NMR protocol. *Journal of Magnetic Resonance*, **2016**, 272, 20-24	3	12
332	Mechanically robust polyvinylidene fluoride (PVDF) based superhydrophobic coatings for self-cleaning applications. *Progress in Organic Coatings*, **2016**, 101, 385-390	4.8	43
331	Cu2O Photocathode for Low Bias Photoelectrochemical Water Splitting Enabled by NiFe-Layered Double Hydroxide Co-Catalyst. *Scientific Reports*, **2016**, 6, 30882	4.9	70
330	Nanostructured Catalytic and Adsorbent Materials for Water Remediation **2016**, 75-111		
329	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. *Advanced Materials*, **2016**, 28, 1567-76	24	154
328	Partial-Homogeneity-Based Two-Dimensional High-Resolution Nuclear Magnetic Resonance Spectroscopy under Inhomogeneous Magnetic Fields. *ChemPhysChem*, **2016**, 17, 1493-9	3.2	1
327	Two-Dimensional J-Resolved NMR Analyses of Fish and Its Products via Spatially Encoded Intermolecular Double-Quantum Coherences. *Food Analytical Methods*, **2016**, 9, 1502-1511	3.4	4

326	Studies on electroless nickel polyalloy coatings over carbon fibers/CFRP composites. *Surface and Coatings Technology*, **2016**, 302, 389-397	4.4	35
325	Facile synthesis of MgAl2O4 with high crystallinity from KCl–MgCl2 composite molten salts. *Materials Research Innovations*, **2016**, 20, 415-420	1.9	1
324	Phase segregation, interfacial intermetallic growth and electromigration-induced failure in Cu/In–48Sn/Cu solder interconnects under current stressing. *Journal of Alloys and Compounds*, **2016**, 673, 372-382	5.7	21
323	An investigation into different nickel and nickel–phosphorus stacked thin coatings for the corrosion protection of electrical contacts. *Surface and Coatings Technology*, **2016**, 300, 95-103	4.4	15
322	Fast quantification of fatty acid profile of intact fish by intermolecular double-quantum coherence 1H-NMR spectroscopy. *European Journal of Lipid Science and Technology*, **2016**, 118, 1150-1159	3	6
321	Nanostructure Restoration of Thermally Reduced Graphene Oxide Electrode upon Incorporation of Nafion for Detection of Trace Heavy Metals in Aqueous Solution. *Electroanalysis*, **2016**, 28, 2037-2043	3	4
320	Recent Advances in TiO2 -Based Nanostructured Surfaces with Controllable Wettability and Adhesion. *Small*, **2016**, 12, 2203-24	11	228
319	A review of one-dimensional TiO2 nanostructured materials for environmental and energy applications. *Journal of Materials Chemistry A*, **2016**, 4, 6772-6801	13	655
318	Electrochemical and long term corrosion behavior of Mn and Mo oxyanions sealed anodic oxide surface developed on aerospace aluminum alloy (AA2024). *Surface and Coatings Technology*, **2016**, 288, 115-125	4.4	15
317	Polyoxometalate immobilized in MIL-101(Cr) as an efficient catalyst for water oxidation. *Applied Catalysis A: General*, **2016**, 521, 83-89	5.1	57
316	Flow-compacted deformations coupled with thermo-chemically induced distortions in manufacturing of thick unidirectional carbon fiber reinforced plastics composites. *Journal of Composite Materials*, **2016**, 50, 3325-3343	2.7	4
315	Constituent materials micro-damage modeling in predicting progressive failure of braided fiber composites. *Composite Structures*, **2016**, 145, 194-202	5.3	27
314	Ambient dissolution–recrystallization towards large-scale preparation of V 2 O 5 nanobelts for high-energy battery applications. *Nano Energy*, **2016**, 22, 583-593	17.1	82
313	Micropatterning Extracellular Matrix Proteins on Electrospun Fibrous Substrate Promote Human Mesenchymal Stem Cell Differentiation Toward Neurogenic Lineage. *ACS Applied Materials & Interfaces*, **2016**, 8, 563-73	9.5	24
312	Development of stable superhydrophobic coatings on aluminum surface for corrosion-resistant, self-cleaning, and anti-icing applications. *Materials and Design*, **2016**, 93, 261-270	8.1	195
311	Influence of cure kinetic, rheological and thermo-mechanical behavior on micro-level curing strain of an epoxy prepreg. *Journal of Thermal Analysis and Calorimetry*, **2016**, 124, 305-316	4.1	6
310	Evaluation of the corrosion performance of Cu–Al intermetallic compounds and the effect of Pd addition. *Microelectronics Reliability*, **2016**, 56, 155-161	1.2	18
309	Mechanically robust superhydrophobic and superoleophobic coatings derived by sol–gel method. *Materials and Design*, **2016**, 89, 1302-1309	8.1	109

308	Recent Advances in Synthesis, Modification, and Applications of TiO2 Nanotube Arrays by Electrochemical Anodization **2016**, 1379-1416		2
307	Cyclic Voltammetric Study of High Speed Silver Electrodeposition and Dissolution in Low Cyanide Solutions. *International Journal of Electrochemistry*, **2016**, 2016, 1-11	2.4	10
306	Recent Progress in Fabrication and Applications of Superhydrophobic Coating on Cellulose-Based Substrates. *Materials*, **2016**, 9,	3.5	73
305	Improved Charge Separation in WO/CuWO Composite Photoanodes for Photoelectrochemical Water Oxidation. *Materials*, **2016**, 9,	3.5	26
304	TiO nanotube platforms for smart drug delivery: a review. *International Journal of Nanomedicine*, **2016**, 11, 4819-4834	7.3	86
303	Smart Drug Delivery Strategies Based on Porous Nanostructure Materials **2016**,		2
302	Localized one-dimensional single voxel magnetic resonance spectroscopy without J coupling modulations. *Magnetic Resonance in Medicine*, **2016**, 76, 1661-1667	4.4	3
301	Robust fluorine-free superhydrophobic PDMS rmosil@fabrics for highly effective self-cleaning and efficient oil water separation. *Journal of Materials Chemistry A*, **2016**, 4, 12179-12187	13	336
300	Wettability: Recent Advances in TiO2-Based Nanostructured Surfaces with Controllable Wettability and Adhesion (Small 16/2016). *Small*, **2016**, 12, 2248-2248	11	3
299	High-resolution nuclear magnetic resonance measurements in inhomogeneous magnetic fields: A fast two-dimensional J-resolved experiment. *Journal of Chemical Physics*, **2016**, 144, 104202	3.9	4
298	Uniform spatial distribution of a nanostructured Ag/AgCl plasmonic photocatalyst and its segregative membrane towards visible light-driven photodegradation. *CrystEngComm*, **2016**, 18, 3725-3733	3.3	8
297	Effective charge separation towards enhanced photocatalytic activity via compositing reduced graphene oxide with two-phase anatase/brookite TiO2. *International Journal of Hydrogen Energy*, **2016**, 41, 10590-10597	6.7	10
296	Magnetically recyclable Bi/Fe-based hierarchical nanostructures via self-assembly for environmental decontamination. *Nanoscale*, **2016**, 8, 12736-46	7.7	19
295	Interfacial evolution and bond reliability in thermosonic Pd coated Cu wire bonding on aluminum metallization: Effect of palladium distribution. *Microelectronics Reliability*, **2016**, 63, 214-223	1.2	7
294	Atmospheric corrosion resistance of electroplated Ni/NiP/Au electronic contacts. *Microelectronics Reliability*, **2016**, 60, 84-92	1.2	11
293	Strength prediction for bi-axial braided composites by a multi-scale modelling approach. *Journal of Materials Science*, **2016**, 51, 6002-6018	4.3	40
292	Improving the mechanical performance of Sn57.6Bi0.4Ag solder joints on Au/Ni/Cu pads during aging and electromigration through the addition of tungsten (W) nanoparticle reinforcement. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 669, 291-303	5.3	28
291	Fast and Simple Construction of Efficient Solar-Water-Splitting Electrodes with Micrometer-Sized Light-Absorbing Precursor Particles. *Advanced Materials Technologies*, **2016**, 1, 1600119	6.8	11

290	In-situ measurement and numerical simulation of resin pressure during Glass/Epoxy prepreg composite manufacturing. *Measurement: Journal of the International Measurement Confederation*, **2016**, 94, 505-514	4.6	5
289	Evaluation of Oolong Teas Using 1H and 13C Solid-state NMR, Sensory Analysis, and Multivariate Statistics. *Journal of the Chinese Chemical Society*, **2016**, 63, 792-799	1.5	5
288	Enhanced visible light hydrogen production via a multiple heterojunction structure with defect-engineered g-C3N4 and two-phase anatase/brookite TiO2. *Journal of Catalysis*, **2016**, 342, 55-62	7.3	45
287	Porous cobalt phosphide/graphitic carbon polyhedral hybrid composites for efficient oxygen evolution reactions. *Journal of Materials Chemistry A*, **2016**, 4, 13742-13745	13	106
286	Effect of palladium on the mechanical properties of Cu□Al intermetallic compounds. *Journal of Alloys and Compounds*, **2015**, 628, 107-112	5.7	13
285	A study of structural and mechanical properties of nano-crystalline tungsten nitride film synthesis by plasma focus. *Radiation Effects and Defects in Solids*, **2015**, 170, 73-83	0.9	6
284	Effect of surface treatment on adhesion strength between magnetron sputtered copper thin films and alumina substrate. *Applied Surface Science*, **2015**, 355, 509-515	6.7	16
283	Ice nucleation behaviour on sol-gel coatings with different surface energy and roughness. *Physical Chemistry Chemical Physics*, **2015**, 17, 21492-500	3.6	43
282	Fabrication of self-cleaning superhydrophobic surface on aluminum alloys with excellent corrosion resistance. *Surface and Coatings Technology*, **2015**, 276, 341-348	4.4	104
281	Defect Engineered g-C3N4 for Efficient Visible Light Photocatalytic Hydrogen Production. *Chemistry of Materials*, **2015**, 27, 4930-4933	9.6	308
280	Synthesis of nano-structure tungsten nitride thin films on silicon using Mather-type plasma focus. *Radiation Effects and Defects in Solids*, **2015**, 170, 557-566	0.9	3
279	Shear strength and fracture toughness of carbon fibre/epoxy interface: effect of surface treatment. *Materials and Design*, **2015**, 85, 800-807	8.1	56
278	Controllable fabrication of immobilized ternary CdS/Pt-TiO2 heteronanostructures toward high-performance visible-light driven photocatalysis. *Physical Chemistry Chemical Physics*, **2015**, 17, 17755-61	3.6	20
277	Reference-free unwarping of single-shot spatiotemporally encoded MRI using asymmetric self-refocused echoes acquisition. *Journal of Magnetic Resonance*, **2015**, 254, 1-9	3	1
276	Mechanical and Interfacial Properties Characterisation of Single Carbon Fibres for Composite Applications. *Experimental Mechanics*, **2015**, 55, 1057-1065	2.6	18
275	Feasibility of Ultrafast Intermolecular Single-Quantum Coherence Spectroscopy in Analysis of Viscous-Liquid Foods. *Food Analytical Methods*, **2015**, 8, 1682-1690	3.4	6
274	Fibrous and flexible supercapacitors comprising hierarchical nanostructures with carbon spheres and graphene oxide nanosheets. *Journal of Materials Chemistry A*, **2015**, 3, 12761-12768	13	36
273	Development of durable self-cleaning coatings using organic□inorganic hybrid sol□gel method. *Applied Surface Science*, **2015**, 344, 205-212	6.7	74

272	In-situ formation of hollow hybrids composed of cobalt sulfides embedded within porous carbon polyhedra/carbon nanotubes for high-performance lithium-ion batteries. *Advanced Materials*, **2015**, 27, 3038-44	24	534
271	Recent Advances in Synthesis, Modification and Applications of TiO2 Nanotube Arrays by Electrochemical Anodization **2015**, 1-33		
270	Line broadening interference for high-resolution nuclear magnetic resonance spectra under inhomogeneous magnetic fields. *Journal of Chemical Physics*, **2015**, 142, 134202	3.9	6
269	Hydrophobic sol–gel coatings based on polydimethylsiloxane for self-cleaning applications. *Materials and Design*, **2015**, 86, 855-862	8.1	56
268	Titanate and titania nanostructured materials for environmental and energy applications: a review. *RSC Advances*, **2015**, 5, 79479-79510	3.7	209
267	Controllable synthesis and capacitive performance of nitrogen-doped porous carbon from carboxymethyl chitosan by template carbonization method. *Journal of Solid State Electrochemistry*, **2015**, 19, 3087-3096	2.6	11
266	Metal–organic framework immobilized cobalt oxide nanoparticles for efficient photocatalytic water oxidation. *Journal of Materials Chemistry A*, **2015**, 3, 20607-20613	13	46
265	Multifunctional wettability patterns prepared by laser processing on superhydrophobic TiO nanostructured surfaces. *Journal of Materials Chemistry B*, **2015**, 3, 342-347	7.3	58
264	Nanostructured photoelectrochemical solar cells with polyaniline nanobelts acting as hole conductors. *Ionics*, **2015**, 21, 1781-1786	2.7	5
263	Study of Structural and Mechanical Properties of WN/a-Si3N4 Hard Coatings Grown by Plasma Focus. *Journal of Fusion Energy*, **2015**, 34, 435-442	1.6	8
262	A research on the visible light photocatalytic activity and kinetics of CdS/CdSe co-modified TiO 2 nanotube arrays. *Surface and Coatings Technology*, **2015**, 261, 356-363	4.4	17
261	A general approach towards multi-faceted hollow oxide composites using zeolitic imidazolate frameworks. *Nanoscale*, **2015**, 7, 965-74	7.7	49
260	Effect of Titania Nano-Fillers on the Fracture Toughness and Mechanical Performance of Hybrid Sol–Gel Coatings. *Nanoscience and Nanotechnology Letters*, **2015**, 7, 226-232	0.8	1
259	CH-π Interaction Driven Macroscopic Property Transition on Smart Polymer Surface. *Scientific Reports*, **2015**, 5, 15742	4.9	7
258	Establishing resolution-improved NMR spectroscopy in high magnetic fields with unknown spatiotemporal variations. *Journal of Chemical Physics*, **2015**, 143, 244201	3.9	1
257	Discrete decoding based ultrafast multidimensional nuclear magnetic resonance spectroscopy. *Journal of Chemical Physics*, **2015**, 143, 024201	3.9	5
256	Robust Flower-Like TiO2@Cotton Fabrics with Special Wettability for Effective Self-Cleaning and Versatile Oil/Water Separation. *Advanced Materials Interfaces*, **2015**, 2, 1500220	4.6	148
255	Accelerated NMR Spectroscopy with Low-Rank Reconstruction. *Angewandte Chemie*, **2015**, 127, 866-868	3.6	10

254	A method based on covariance and pattern recognition for improving resolutions of spatially encoded NMR spectra. *Magnetic Resonance in Chemistry*, **2015**, 53, 945-51	2.1	2
253	Multifunctional TiO2-Based Particles: The Effect of Fluorination Degree and Liquid Surface Tension on Wetting Behavior. *Particle and Particle Systems Characterization*, **2015**, 32, 355-363	3.1	19
252	TiO2-Based Nanomaterials: Design, Synthesis, and Applications. *Journal of Nanomaterials*, **2015**, 2015, 1-3	3.2	6
251	Reduced graphene oxide decorated with tin nanoparticles through electrodeposition for simultaneous determination of trace heavy metals. *Electrochimica Acta*, **2015**, 174, 207-214	6.7	38
250	Controlled deposition and enhanced visible light photocatalytic performance of Pt-modified TiO2 nanotube arrays. *Applied Surface Science*, **2015**, 351, 225-231	6.7	47
249	High-resolution NMR spectroscopy in inhomogeneous fields. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2015**, 90-91, 1-31	10.4	22
248	Glassy carbon electrode modified by graphene–gold nanocomposite coating for detection of trace lead ions in acetate buffer solution. *Thin Solid Films*, **2015**, 584, 85-89	2.2	37
247	Enhanced photocatalytic performances of n-TiO$_2$ nanotubes by uniform creation of p-n heterojunctions with p-Bi$_2$O$_3$ quantum dots. *Nanoscale*, **2015**, 7, 11552-60	7.7	102
246	Substitution induced band structure shape tuning in hybrid perovskites (CH3NH3Pb1−xSnxI3) for efficient solar cell applications. *RSC Advances*, **2015**, 5, 107497-107502	3.7	37
245	A high-resolution 2D J-resolved NMR detection technique for metabolite analyses of biological samples. *Scientific Reports*, **2015**, 5, 8390	4.9	18
244	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. *Chemical Communications*, **2015**, 51, 3109-12	5.8	135
243	Tin whiskers growth of SnAgIn solder on Kovar substrate with Au/Ni plating. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 1222-1227	2.1	4
242	One-pot solvothermal synthesis of dual-phase titanate/titania Nanoparticles and their adsorption and photocatalytic Performances. *Journal of Solid State Chemistry*, **2014**, 214, 67-73	3.3	5
241	Effect of carbon nanotubes and their dispersion on electroless NiP under bump metallization for lead-free solder interconnection. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 2682-2691	2.1	12
240	High-resolution heteronuclear multi-dimensional NMR spectroscopy in magnetic fields with unknown spatial variations. *Journal of Magnetic Resonance*, **2014**, 242, 49-56	3	8
239	Unravelling the correlation between the aspect ratio of nanotubular structures and their electrochemical performance to achieve high-rate and long-life lithium-ion batteries. *Angewandte Chemie - International Edition*, **2014**, 53, 13488-92	16.4	152
238	Controlling Na diffusion by rational design of Si-based layered architectures. *Physical Chemistry Chemical Physics*, **2014**, 16, 4260-7	3.6	62
237	Ultra-fine pitch palladium-coated copper wire bonding: Effect of bonding parameters. *Microelectronics Reliability*, **2014**, 54, 2555-2563	1.2	9

236	Development of sol-gel icephobic coatings: effect of surface roughness and surface energy. *ACS Applied Materials & Interfaces*, **2014**, 6, 20685-92	9.5	118
235	Triple-layered nanostructured WO□photoanodes with enhanced photocurrent generation and superior stability for photoelectrochemical solar energy conversion. *Nanoscale*, **2014**, 6, 13457-62	7.7	52
234	Transition metal-doped BiFeO3 nanofibers: forecasting the conductivity limit. *Physical Chemistry Chemical Physics*, **2014**, 16, 23089-95	3.6	12
233	Poly Tri-s-triazines as Visible Light Sensitizers in Titania-Based Composite Photocatalysts: Promotion of Melon Development from Urea over Acid Titanates. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 149-157	8.3	16
232	Mono- and co-doped NaTaO3 for visible light photocatalysis. *Physical Chemistry Chemical Physics*, **2014**, 16, 16085-94	3.6	37
231	Enhanced visible-light photoelectrochemical behaviour of heterojunction composite with Cu2O nanoparticles-decorated TiO2 nanotube arrays. *New Journal of Chemistry*, **2014**, 38, 4975-4984	3.6	42
230	Nanotubes: Mechanical Force-Driven Growth of Elongated Bending TiO2-based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries (Adv. Mater. 35/2014). *Advanced Materials*, **2014**, 26, 6046-6046	24	6
229	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. *Angewandte Chemie*, **2014**, 126, 13706-13710	3.6	28
228	Fast 3D gradient shimming by only 2□ pixels in XY plane for NMR-solution samples. *Journal of Magnetic Resonance*, **2014**, 248, 13-8	3	6
227	Controllable wettability and adhesion on bioinspired multifunctional TiO2 nanostructure surfaces for liquid manipulation. *Journal of Materials Chemistry A*, **2014**, 2, 18531-18538	13	76
226	Influence of Different CH4/N2 Ratios on Structural and Mechanical Properties of a-CNx:H Film Synthesized Using Plasma Focus. *Journal of Fusion Energy*, **2014**, 33, 640-647	1.6	5
225	NMR-based metabonomic analysis of MnO-embedded iron oxide nanoparticles as potential dual-modal contrast agents. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	9
224	Mechanical force-driven growth of elongated bending TiO2 -based nanotubular materials for ultrafast rechargeable lithium ion batteries. *Advanced Materials*, **2014**, 26, 6111-8	24	358
223	Interface reaction between an electroless Ni□Co□P metallization and Sn□3.5Ag lead-free solder with improved joint reliability. *Acta Materialia*, **2014**, 71, 69-79	8.4	37
222	Transient liquid phase Ag-based solder technology for high-temperature packaging applications. *Journal of Alloys and Compounds*, **2014**, 587, 365-368	5.7	53
221	Effect of TiO2 nanoparticle addition on electroless Ni□P under bump metallization for lead-free solder interconnection. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 600, 67-75	5.3	21
220	A review on visible light active perovskite-based photocatalysts. *Molecules*, **2014**, 19, 19995-20022	4.8	346
219	A novel detection scheme for high-resolution two-dimensional spin-echo correlated spectra in inhomogeneous fields. *PLoS ONE*, **2014**, 9, e84032	3.7	2

218	Localised two-dimensional correlated spectroscopy based on Hadamard encoding technique. *Molecular Physics*, **2014**, 112, 2602-2607	1.7	
217	Mechanical properties of Al/a-C nanocomposite thin films synthesized using a plasma focus device. *Chinese Physics B*, **2014**, 23, 025204	1.2	6
216	R□ktitelbild: Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries (Angew. Chem. 49/2014). *Angewandte Chemie*, **2014**, 126, 13840-13840	3.6	
215	Surfactant-thermal method to synthesize a novel two-dimensional oxochalcogenide. *Chemistry - an Asian Journal*, **2014**, 9, 131-4	4.5	74
214	Customized glass sealant for ceramic substrates for high temperature electronic application. *Microelectronics Reliability*, **2014**, 54, 2905-2910	1.2	15
213	Interface Reaction Between Electroless Ni□SnP Metallization and Lead-Free Sn□.5Ag Solder with Suppressed Ni3P Formation. *Journal of Electronic Materials*, **2014**, 43, 4103-4110	1.9	4
212	Multi-scale simulation and finite-element-assisted computation of elastic properties of braided textile reinforced composites. *Journal of Composite Materials*, **2014**, 48, 931-949	2.7	34
211	High-resolution two-dimensional J-resolved NMR spectroscopy for biological systems. *Biophysical Journal*, **2014**, 106, 2061-70	2.9	25
210	Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator. *Medical Image Analysis*, **2014**, 18, 843-56	15.4	206
209	High-resolution 1H NMR spectroscopy of fish muscle, eggs and small whole fish via Hadamard-encoded intermolecular multiple-quantum coherence. *PLoS ONE*, **2014**, 9, e86422	3.7	21
208	Synthesis, photophysical properties, and photocatalytic applications of Bi doped NaTaO3 and Bi doped Na2Ta2O6 nanoparticles. *Journal of Physics and Chemistry of Solids*, **2013**, 74, 1708-1713	3.9	41
207	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO2 Nanostructures. *Journal of Physical Chemistry C*, **2013**, 117, 14973-14982	3.8	111
206	A computational study of the effect of alloying additions on the stability of Ni/c-ZrO2 interfaces. *Surface Science*, **2013**, 611, 5-9	1.8	10
205	Nitrogen doped TiO2 nanotube arrays with high photoelectrochemical activity for photocatalytic applications. *Applied Surface Science*, **2013**, 280, 523-529	6.7	74
204	A simple strategy to incorporate Pt into TiO2 nanosponges via wet oxidation of multilayered films. *RSC Advances*, **2013**, 3, 19971	3.7	3
203	Pb-Free Glass Paste: A Metallization-Free Die-Attachment Solution for High-Temperature Application on Ceramic Substrates. *Journal of Electronic Materials*, **2013**, 42, 2667-2676	1.9	11
202	Bioinspired patterning with extreme wettability contrast on TiO2 nanotube array surface: a versatile platform for biomedical applications. *Small*, **2013**, 9, 2945-53	11	144
201	Uniformly dispersed CdS nanoparticles sensitized TiO2 nanotube arrays with enhanced visible-light photocatalytic activity and stability. *Journal of Solid State Chemistry*, **2013**, 208, 27-34	3.3	29

200	Improving Photocatalytic H2 Evolution of TiO2 via Formation of {001}{010} Quasi-Heterojunctions. *Journal of Physical Chemistry C*, **2013**, 117, 22894-22902	3.8	33
199	Anion-Doped NaTaO3 for Visible Light Photocatalysis. *Journal of Physical Chemistry C*, **2013**, 117, 22518-22524	3.8	63
198	Nanotube Arrays: Bioinspired Patterning with Extreme Wettability Contrast on TiO2 Nanotube Array Surface: A Versatile Platform for Biomedical Applications (Small 17/2013). *Small*, **2013**, 9, 3004-3004	11	
197	Improved binding and stability in Si/CNT hybrid nanostructures via interfacial functionalization: a first-principles study. *RSC Advances*, **2013**, 3, 8446	3.7	11
196	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. *Journal of Materials Chemistry A*, **2013**, 1, 82-88	13	126
195	Density functional theory study of the effects of alloying additions on sulfur adsorption on nickel surfaces. *Applied Surface Science*, **2013**, 264, 320-328	6.7	25
194	Improved mechanical and thermomechanical properties of alumina substrate via iron doping. *Scripta Materialia*, **2013**, 68, 869-872	5.6	1
193	Creep behaviour of eutectic SnBi alloy and its constituent phases using nanoindentation technique. *Journal of Alloys and Compounds*, **2013**, 574, 98-103	5.7	40
192	Simulation of bleeder flow and curing of thick composites with pressure and temperature dependent properties. *Simulation Modelling Practice and Theory*, **2013**, 32, 64-82	3.9	8
191	Significantly retarded interfacial reaction between an electroless NiWP metallization and lead-free Sn3.5Ag solder. *Journal of Alloys and Compounds*, **2013**, 565, 11-16	5.7	24
190	In situ surface-modification-induced superhydrophobic patterns with reversible wettability and adhesion. *Advanced Materials*, **2013**, 25, 1682-6	24	232
189	Enhanced Li adsorption and diffusion in silicon nanosheets based on first principles calculations. *RSC Advances*, **2013**, 3, 4231	3.7	48
188	Specific surface area of titanium dioxide (TiO2) particles influences cyto- and photo-toxicity. *Toxicology*, **2013**, 304, 132-40	4.4	42
187	Enhanced Li adsorption and diffusion in single-walled silicon nanotubes: an ab initio study. *ChemPhysChem*, **2013**, 14, 1161-7	3.2	21
186	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. *Small*, **2013**, 9, 996-1002	11	118
185	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. *Advanced Energy Materials*, **2013**, 3, 1368-1380	21.8	118
184	Hard TiCx/SiC/a-C:H nanocomposite thin films using pulsed high energy density plasma focus device. *Nuclear Instruments & Methods in Physics Research B*, **2013**, 301, 53-61	1.2	25
183	Molecule-based water-oxidation catalysts (WOCs): cluster-size-dependent dye-sensitized polyoxometalates for visible-light-driven O2 evolution. *Scientific Reports*, **2013**, 3, 1853	4.9	64

182	Scratch damage resistance of silica-based sol–gel coatings on polymeric substrates **2013**, 467-511		3
181	Ag–AgBr/TiO2/RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. *Journal of Materials Chemistry A*, **2013**, 1, 4718	13	171
180	Hollow Nanostructures: Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes (Adv. Funct. Mater. 23/2013). *Advanced Functional Materials*, **2013**, 23, 2902-2902	15.6	1
179	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. *Advanced Functional Materials*, **2013**, 23, 2932-2940	15.6	255
178	CuInZnS-decorated graphene nanosheets for highly efficient visible-light-driven photocatalytic hydrogen production. *Journal of Materials Chemistry A*, **2013**, 1, 6359	13	39
177	Optimized porous rutile TiO2 nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. *Energy and Environmental Science*, **2013**, 6, 1615	35.4	147
176	Nanoindentation study on the creep resistance of SnBi solder alloy with reactive nano-metallic fillers. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 232-238	5.3	46
175	Bioinspired TiO2 nanostructure films with special wettability and adhesion for droplets manipulation and patterning. *Scientific Reports*, **2013**, 3, 3009	4.9	54
174	Bleeder Thickness Optimization for Controlling Resin Content in Thick Laminated Composites. *Advanced Materials Research*, **2013**, 740, 698-703	0.5	3
173	Palladium-Coated and Bare Copper Wire Study for Ultra-Fine Pitch Wire Bonding. *ECS Transactions*, **2013**, 52, 717-730	1	5
172	Cu2ZnSnS4 nanoporous spheres for highly efficient visible-light-driven photocatalytic hydrogen evolution. *New Journal of Chemistry*, **2013**, 37, 1878	3.6	11
171	Uniformly dispersed and controllable ligand-free silver-nanoparticle-decorated TiO2 nanotube arrays with enhanced photoelectrochemical behaviors. *Chemistry - an Asian Journal*, **2013**, 8, 2746-54	4.5	15
170	Novel encapsulation materials for High Pressure-High Temperature (HPHT) applications. *Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)*, **2013**, 2013, 000268-000274	0.1	
169	Density functional theory study of sulfur tolerance of copper: New copper–sulfur phase diagram. *Chemical Physics Letters*, **2012**, 533, 20-24	2.5	17
168	Silver decorated titanate/titania nanostructures for efficient solar driven photocatalysis. *Journal of Solid State Chemistry*, **2012**, 189, 117-122	3.3	50
167	Nanoindentation creep of tin and aluminium: A comparative study between constant load and constant strain rate methods. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 532, 505-510	5.3	66
166	Formation and migration of oxygen and zirconium vacancies in cubic zirconia and zirconium oxysulfide. *Solid State Ionics*, **2012**, 212, 117-122	3.3	35
165	Effect of oxygen concentration on the thermal stability of magnetron sputtered amorphous Ta–Si–N thin films. *Thin Solid Films*, **2012**, 520, 2356-2361	2.2	8

164	Cationic quaternary chalcohalide nanobelts: Hg4In2Q3Cl8 (Q = S, Se, Te). *RSC Advances*, **2012**, 2, 6401	3.7	10
163	CdSe/CdS quantum dots co-sensitized TiO2 nanotube array photoelectrode for highly efficient solar cells. *Electrochimica Acta*, **2012**, 79, 175-181	6.7	85
162	Nitrogen-sensitized dual phase titanate/titania for visible-light driven phenol degradation. *Journal of Solid State Chemistry*, **2012**, 196, 518-527	3.3	21
161	Visible-light plasmonic photocatalyst anchored on titanate nanotubes: a novel nanohybrid with synergistic effects of adsorption and degradation. *RSC Advances*, **2012**, 2, 9406	3.7	63
160	Reaction Mechanisms of Ethylenediaminetetraacetic Acid and Diethanolamine in the Precursor Solution for Producing (K, Na)NbO3 Thin Films with Outstanding Piezoelectric Properties. *Journal of Physical Chemistry C*, **2012**, 116, 15550-15556	3.8	14
159	Synthesis of nanostructured silver/silver halides on titanate surfaces and their visible-light photocatalytic performance. *ACS Applied Materials & Interfaces*, **2012**, 4, 438-46	9.5	70
158	High-efficiency photoelectrocatalytic hydrogen generation enabled by palladium quantum dots-sensitized TiO2 nanotube arrays. *Journal of the American Chemical Society*, **2012**, 134, 15720-3	16.4	516
157	Copper diffusion barrier performance of amorphous Ta□Ni thin films. *Applied Surface Science*, **2012**, 258, 3158-3162	6.7	7
156	Hierarchical TiO2 Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. *Journal of Physical Chemistry C*, **2012**, 116, 2772-2780	3.8	231
155	Elastic modulus, hardness and creep performance of SnBi alloys using nanoindentation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 558, 253-258	5.3	81
154	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. *Journal of Materials Chemistry*, **2012**, 22, 18395		80
153	Highly stable heterostructured Ag□AgBr/TiO2 composite: a bifunctional visible-light active photocatalyst for destruction of ibuprofen and bacteria. *Journal of Materials Chemistry*, **2012**, 22, 23149		84
152	Electronic Structure, Optical Properties, and Photocatalytic Activities of LaFeO3□NaTaO3 Solid Solution. *Journal of Physical Chemistry C*, **2012**, 116, 22767-22773	3.8	52
151	Transparent superhydrophobic/superhydrophilic TiO2-based coatings for self-cleaning and anti-fogging. *Journal of Materials Chemistry*, **2012**, 22, 7420		386
150	Visible light driven photocatalytic hydrogen evolution and photophysical properties of Bi3+ doped NaTaO3. *International Journal of Hydrogen Energy*, **2012**, 37, 4889-4896	6.7	58
149	Self-organized TiO2 nanotube arrays with uniform platinum nanoparticles for highly efficient water splitting. *International Journal of Hydrogen Energy*, **2012**, 37, 6438-6446	6.7	72
148	Hierarchical protonated titanate nanostructures for lithium-ion batteries. *Nanoscale*, **2011**, 3, 4074-7	7.7	32
147	Lithium diffusion in (Li, K, Na)NbO3 piezoeletric thin films and the resulting approach for enhanced performance properties. *Applied Physics Letters*, **2011**, 99, 092902	3.4	27

146	Intermetallic phase transformations in Au–Al wire bonds. *Intermetallics*, **2011**, 19, 1808-1816	3.5	32
145	In Situ Mechanistic Investigation at the Liquid/Solid Interface by Attenuated Total Reflectance FTIR: Ethanol Photo-Oxidation over Pristine and Platinized TiO2 (P25). *ACS Catalysis*, **2011**, 1, 864-871	13.1	40
144	Facilitating intermetallic formation in wire bonding by applying a pre-ultrasonic energy. *Microelectronic Engineering*, **2011**, 88, 3155-3157	2.5	10
143	Impact response of aluminum foam core sandwich structures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 529, 94-101	5.3	57
142	New mechanisms of void growth in Au–Al wire bonds: Volumetric shrinkage and intermetallic oxidation. *Scripta Materialia*, **2011**, 65, 642-645	5.6	19
141	Behavior of aluminum oxide, intermetallics and voids in Cu–Al wire bonds. *Acta Materialia*, **2011**, 59, 5661-5673	5.4	157
140	Effect of bonding duration and substrate temperature in copper ball bonding on aluminium pads: A TEM study of interfacial evolution. *Microelectronics Reliability*, **2011**, 51, 113-118	1.2	28
139	Interdependent Intermetallic Compound Growth in an Electroless Ni-P/Sn-3.5Ag Reaction Couple. *Journal of Electronic Materials*, **2011**, 40, 213-223	1.9	26
138	SERS study of Ag nanoparticles electrodeposited on patterned TiO2 nanotube films. *Journal of Raman Spectroscopy*, **2011**, 42, 986-991	2.3	35
137	Dual-phase titanate/anatase with nitrogen doping for enhanced degradation of organic dye under visible light. *Chemistry - A European Journal*, **2011**, 17, 2575-8	4.8	29
136	Enhanced photoelectrochemical activities of a nanocomposite film with a bamboo leaf-like structured TiO2 layer on TiO2 nanotube arrays. *Chemical Communications*, **2011**, 47, 2598-600	5.8	37
135	Multi-functional hybrid protonated titanate nanobelts with tunable wettability. *Soft Matter*, **2011**, 7, 6313	3.6	22
134	Site Specific Optical and Photocatalytic Properties of Bi-Doped NaTaO3. *Journal of Physical Chemistry C*, **2011**, 115, 11846-11853	3.8	64
133	Effect of sulfur impurity on the stability of cubic zirconia and its interfaces with metals. *Journal of Materials Chemistry*, **2011**, 21, 12363		13
132	In situ formation of large-scale Ag/AgCl nanoparticles on layered titanate honeycomb by gas phase reaction for visible light degradation of phenol solution. *Applied Catalysis B: Environmental*, **2011**, 106, 577-585	21.8	157
131	Quantitative test method for evaluation of anti-fingerprint property of coated surfaces. *Applied Surface Science*, **2011**, 257, 2965-2969	6.7	59
130	Magnetron sputtered TiO2 films on a stainless steel substrate: Selective rutile phase formation and its tribological and anti-corrosion performance. *Thin Solid Films*, **2011**, 519, 4860-4864	2.2	33
129	Effect of ultrasonic energy on nanoscale interfacial structure in copper wire bonding on aluminium pads. *Journal Physics D: Applied Physics*, **2011**, 44, 145301	3	12

128	A review on the recent progress in superhydrophobic surfaces with special adhesions. *Scientia Sinica Chimica*, **2011**, 41, 609-628	1.6	2
127	The formation of micrometer-long TiO 2 nanotube arrays by anodization of titanium film on conducting glass substrate. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2011**, 2, 045002	1.6	6
126	Recent Progress on the Superhydrophobic Surfaces with Special Adhesion: From Natural to Biomimetic to Functional. *Journal of Nanoengineering and Nanomanufacturing*, **2011**, 1, 18-34		47
125	Single-Crystalline InVO4 Nanotubes by Self-Template-Directed Fabrication. *Journal of the American Ceramic Society*, **2010**, 93, 596-600	3.8	5
124	INTERFACE FRACTURE TOUGHNESS ASSESSMENT OF SOLDER JOINTS USING DOUBLE CANTILEVER BEAM TEST. *International Journal of Modern Physics B*, **2010**, 24, 164-174	1.1	3
123	The structure, stability, and reactivity of oxalato-monoperoxovanadium(V) in solution. *Journal of Coordination Chemistry*, **2010**, 63, 3268-3278	1.6	3
122	Lead-free piezoelectric (K0.5Na0.5)NbO3 thin films derived from chemical solution modified with stabilizing agents. *Applied Physics Letters*, **2010**, 97, 102901	3.4	48
121	The role of bonding duration in wire bond formation: a study of footprints of thermosonic gold wire on aluminium pad. *Microelectronics International*, **2010**, 27, 11-16	0.8	10
120	Controllable construction of ZnO/TiO2 patterning nanostructures by superhydrophilic/superhydrophobic templates. *New Journal of Chemistry*, **2010**, 34, 44-51	3.6	40
119	The Origin of Visible Light Absorption in Chalcogen Element (S, Se, and Te)-Doped Anatase TiO2 Photocatalysts. *Journal of Physical Chemistry C*, **2010**, 114, 7063-7069	3.8	53
118	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. *Journal of Materials Chemistry*, **2010**, 20, 10169		47
117	A micromechanism study of thermosonic gold wire bonding on aluminum pad. *Journal of Applied Physics*, **2010**, 108, 113517	2.5	44
116	Fabrication of uniform Ag/TiO2 nanotube array structures with enhanced photoelectrochemical performance. *New Journal of Chemistry*, **2010**, 34, 1335	3.6	164
115	Morphology, crystal structure and adsorption performance of hydrothermally synthesized titania and titanate nanostructures. *Nanoscale*, **2010**, 2, 2751-7	7.7	54
114	High-resolution NMR spectra in inhomogeneous and unstable fields via the three-pulse method. *Molecular Physics*, **2010**, 108, 1869-1875	1.7	4
113	Tribological properties of Cr- and Ti-doped MoS2 composite coatings under different humidity atmosphere. *Surface and Coatings Technology*, **2010**, 205, 224-231	4.4	127
112	Nitrogen-doped TiO2 nanotube array films with enhanced photocatalytic activity under various light sources. *Journal of Hazardous Materials*, **2010**, 184, 855-863	12.8	213
111	Growth of Intermetallic Compounds in Thermosonic Copper Wire Bonding on Aluminum Metallization. *Journal of Electronic Materials*, **2010**, 39, 124-131	1.9	58

110	Fabrication of patterned CdS/TiO2 heterojunction by wettability template-assisted electrodeposition. *Materials Letters*, **2010**, 64, 1309-1312	3.3	25
109	Synthesis and Spectroscopic Characterizations of an Insulinomimetic Peroxovanadate Complex in Aqueous Solution. *Chinese Journal of Chemistry*, **2010**, 21, 746-750	4.9	6
108	P NMR studies on the ligand dissociation of trinuclear molybdenum cluster compounds. *Chinese Journal of Chemistry*, **2010**, 21, 1174-1177	4.9	2
107	Ultrafast synthesis of layered titanate microspherulite particles by electrochemical spark discharge spallation. *Chemistry - A European Journal*, **2010**, 16, 7704-8	4.8	43
106	Hydrazine-hydrothermal method to synthesize three-dimensional chalcogenide framework for photocatalytic hydrogen generation. *Journal of Solid State Chemistry*, **2010**, 183, 2644-2649	3.3	111
105	Initial bond formation in thermosonic gold ball bonding on aluminium metallization pads. *Journal of Materials Processing Technology*, **2010**, 210, 1035-1042	5.3	18
104	Electrochemically multi-anodized TiO2 nanotube arrays for enhancing hydrogen generation by photoelectrocatalytic water splitting. *Electrochimica Acta*, **2010**, 55, 4776-4782	6.7	117
103	Selective formation of ordered arrays of octacalcium phosphate ribbons on TiO(2) nanotube surface by template-assisted electrodeposition. *Colloids and Surfaces B: Biointerfaces*, **2010**, 76, 117-22	6	47
102	A novel electrochemical strategy for improving blood compatibility of titanium-based biomaterials. *Colloids and Surfaces B: Biointerfaces*, **2010**, 79, 309-13	6	89
101	Photoelectrocatalytic properties of Ag nanoparticles loaded TiO2 nanotube arrays prepared by pulse current deposition. *Electrochimica Acta*, **2010**, 55, 7211-7218	6.7	162
100	Development of high speed board level bend tester for drop impact applications **2009**,		2
99	Fast acquisition of high-resolution NMR spectra in inhomogeneous fields via intermolecular double-quantum coherences. *Journal of Chemical Physics*, **2009**, 130, 084504	3.9	33
98	Superhydrophilic–Superhydrophobic Template: A Simple Approach to Micro- and Nanostructure Patterning of TiO[sub 2] Films. *Journal of the Electrochemical Society*, **2009**, 156, D480	3.9	31
97	Enabling Low Temperature Copper Bonding with an Organic Monolayer. *Advanced Materials Research*, **2009**, 74, 133-136	0.5	4
96	A re-examination of the mechanism of thermosonic copper ball bonding on aluminium metallization pads. *Scripta Materialia*, **2009**, 61, 165-168	5.6	82
95	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. *Advanced Materials*, **2009**, 21, 3799-3803	24	397
94	Ultrasound aided photochemical synthesis of Ag loaded TiO2 nanotube arrays to enhance photocatalytic activity. *Journal of Hazardous Materials*, **2009**, 171, 1045-50	12.8	209
93	Self-organized TiO2 nanotubes in mixed organic–inorganic electrolytes and their photoelectrochemical performance. *Electrochimica Acta*, **2009**, 54, 6536-6542	6.7	70

92	Advances in high-resolution nuclear magnetic resonance methods in inhomogeneous magnetic fields using intermolecular multiple quantum coherences **2009**, 52, 58-69		4
91	Effect of Electromigration on the Mechanical Performance of Sn-3.5Ag Solder Joints with Ni and Ni-P Metallizations. *Journal of Electronic Materials*, **2009**, 38, 78-87	1.9	22
90	Titanium Diffusion into (K0.5Na0.5)NbO3 Thin Films Deposited on Pt/Ti/SiO2/Si Substrates and Corresponding Effects. *Journal of the American Ceramic Society*, **2009**, 92, 1322-1327	3.8	26
89	Underfill selection methodology for fine pitch Cu/low-k FCBGA packages. *Microelectronics Reliability*, **2009**, 49, 150-162	1.2	13
88	Electrophoretic deposition of titanate nanotube films with extremely large wetting contrast. *Electrochemistry Communications*, **2009**, 11, 2268-2271	5.1	37
87	Formation and characterization of magnetron sputtered Ta-Si-N-O thin films. *Thin Solid Films*, **2009**, 517, 5207-5211	2.2	10
86	Adhesion enhancement of sol–gel coating on polycarbonate by heated impregnation treatment. *Thin Solid Films*, **2009**, 517, 4850-4856	2.2	23
85	The effect of AlOOH boehmite nanorods on mechanical property of hybrid composite coatings. *Thin Solid Films*, **2009**, 517, 4871-4874	2.2	33
84	Effect of the oxygen pressure on the microstructure and optical properties of ZnO films prepared by laser molecular beam epitaxy. *Physica B: Condensed Matter*, **2009**, 404, 4075-4082	2.8	39
83	Structure, morphology and properties of Fe-doped ZnO films prepared by facing-target magnetron sputtering system. *Applied Surface Science*, **2009**, 255, 6881-6887	6.7	124
82	Sonoelectrochemical synthesis of highly photoelectrochemically active TiO2 nanotubes by incorporating CdS nanoparticles. *Nanotechnology*, **2009**, 20, 295601	3.4	67
81	Mechanistic investigations of photo-driven processes over TiO2 by in-situ DRIFTS-MS: Part 1. Platinization and methanol reforming. *Energy and Environmental Science*, **2009**, 2, 991	35.4	58
80	A facile method for synthesis of Ag/TiO2 nanostructures. *Materials Letters*, **2008**, 62, 3688-3690	3.3	54
79	Markedly controllable adhesion of superhydrophobic spongelike nanostructure TiO2 films. *Langmuir*, **2008**, 24, 3867-73	4	169
78	Scratch resistance of protective sol-gel coatings on polymeric substrates. *Tribology and Interface Engineering Series*, **2008**, 55, 325-353		6
77	Effect of chain length on low temperature gold-gold bonding by self-assembled monolayers. *Applied Physics Letters*, **2008**, 92, 131913	3.4	13
76	TEM Microstructural Analysis of As-bonded Copper Ball Bonds on Aluminum Metallization **2008**,		3
75	High-Temperature Stability of Silicon Carbide Nanowires. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 3999-4002	1.3	28

74	Ferroelectric thin films with complex composition of PNN–PZN–PMN–PZT and excess NiO. *Journal of Materials Research*, **2008**, 23, 536-542	2.5	2
73	Intermolecular multiple-quantum coherence NMR signals modulated by double distant dipolar fields. *Molecular Physics*, **2008**, 106, 2381-2389	1.7	1
72	Scratch resistance of brittle thin films on compliant substrates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 493, 292-298	5.3	59
71	Nanoscale morphology for high hydrophobicity of a hard sol–gel thin film. *Applied Surface Science*, **2008**, 254, 6952-6958	6.7	32
70	Superhydrophilic–superhydrophobic micropattern on TiO2 nanotube films by photocatalytic lithography. *Electrochemistry Communications*, **2008**, 10, 387-391	5.1	127
69	A Systematic Underfill Selection Methodology for Fine Pitch Cu/Low-k FCBGA Package **2007**,		2
68	Size, temperature, and bond nature dependence of elasticity and its derivatives on extensibility, Debye temperature, and heat capacity of nanostructures. *Physical Review B*, **2007**, 75,	3.3	75
67	Fracture toughness measurement of thin films on compliant substrate using controlled buckling test. *Thin Solid Films*, **2007**, 515, 3305-3309	2.2	22
66	Immersion nickel deposition on blank silicon in aqueous solution containing ammonium fluoride. *Thin Solid Films*, **2007**, 515, 4696-4701	2.2	5
65	Effect of Interfacial Reaction on the Tensile Strength of Sn-3.5Ag/Ni-P and Sn-37Pb/Ni-P Solder Joints. *Journal of Electronic Materials*, **2007**, 36, 17-25	1.9	20
64	Low Temperature Direct Metal Bonding by Self Assembled Monolayers. *Materials Research Society Symposia Proceedings*, **2007**, 990, 1		1
63	Self-assembled monolayers for reduced temperature direct metal thermocompression bonding. *Applied Physics Letters*, **2007**, 91, 061913	3.4	15
62	Critical temperatures in thermocompression gold stud bonding. *Journal of Applied Physics*, **2007**, 102, 063519	2.5	14
61	Analytical modeling of reservoir effect on electromigration in Cu interconnects. *Journal of Materials Research*, **2007**, 22, 152-156	2.5	2
60	Influence of Phosphorus Content on the Interfacial Microstructure Between Sn–3.5Ag Solder and Electroless Ni–P Metallization on Cu Substrate. *IEEE Transactions on Advanced Packaging*, **2007**, 30, 68-72		3
59	Effect of Ni–P thickness on solid-state interfacial reactions between Sn–3.5Ag solder and electroless Ni–P metallization on Cu substrate. *Thin Solid Films*, **2006**, 504, 410-415	2.2	53
58	The effect of line width on stress-induced voiding in Cu dual damascene interconnects. *Thin Solid Films*, **2006**, 504, 298-301	2.2	17
57	Formation and characterization of Ti–Si–N–O barrier films. *Thin Solid Films*, **2006**, 504, 218-222	2.2	17

56	Effect of phosphorus content on Cu/Ni-P/Sn-3.5Ag solder joint strength after multiple reflows. *Journal of Electronic Materials*, **2006**, 35, 2126-2134	1.9	21
55	Multi-layered electroless NiP coatings on powder-sintered NdFeB permanent magnet. *Journal of Magnetism and Magnetic Materials*, **2006**, 302, 216-222	2.8	44
54	Modification of Ta/Polymeric Low-k Interface by Electron-Beam Treatment. *Journal of the Electrochemical Society*, **2006**, 153, G30	3.9	8
53	Improvement of Electromigration Lifetime of Submicrometer Dual-Damascene Cu Interconnects Through Surface Engineering. *Journal of the Electrochemical Society*, **2006**, 153, G840	3.9	18
52	Factors Affecting the Mechanical Properties of Cu/Electroless Ni-P/Sn-3.5Ag Solder Joints. *Materials Research Society Symposia Proceedings*, **2006**, 968, 1		0
51	Electric Current Induced Brittle Failure of Eutectic Lead and Lead-free Solder Joints with Electroless Ni-P Metallization. *Materials Research Society Symposia Proceedings*, **2006**, 968, 1		0
50	Bias-Temperature Stability of TiSiNO Films. *Journal of the Electrochemical Society*, **2006**, 153, G470	3.9	4
49	Factors towards Pencil Scratch Resistance of Protective Sol-Gel Coatings on Polycarbonate Substrate. *Key Engineering Materials*, **2006**, 312, 339-344	0.4	5
48	Effect of NiP Thickness on the Tensile Strength of Cu/Electroless NiP/Sn3.5Ag Solder Joint. *IEEE Transactions on Components and Packaging Technologies*, **2006**, 29, 886-892		6
47	Effects of the Structure of TiO[sub 2] Nanotube Array on Ti Substrate on Its Photocatalytic Activity. *Journal of the Electrochemical Society*, **2006**, 153, D123	3.9	186
46	Reservoir effect and the role of low current density regions on electromigration lifetimes in copper interconnects. *Journal of Materials Research*, **2006**, 21, 2241-2245	2.5	8
45	Effect of electron beam treatment on adhesion of Ta/polymeric low-k interface. *Applied Physics Letters*, **2006**, 88, 233510	3.4	5
44	Copper diffusion in TiSiN layers formed by inductively coupled plasma implantation. *Applied Surface Science*, **2006**, 253, 530-534	6.7	11
43	Elasticity modulus, hardness and fracture toughness of Ni3Sn4 intermetallic thin films. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 423, 107-110	5.3	38
42	Influence of solid-state interfacial reactions on the tensile strength of Cu/electroless NiP/Sn3.5Ag solder joint. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 423, 175-179	5.3	18
41	Enhancing direct metal bonding with self-assembled monolayers. *Thin Solid Films*, **2006**, 504, 367-370	2.2	6
40	Temperature and pressure dependence in thermocompression gold stud bonding. *Thin Solid Films*, **2006**, 504, 379-383	2.2	20
39	The influence of temperature and dielectric materials on stress induced voiding in Cu dual damascene interconnects. *Thin Solid Films*, **2006**, 504, 161-165	2.2	16

38	Synthesis and Characterization of Transparent Hydrophobic Sol-Gel Hard Coatings. *Journal of Sol-Gel Science and Technology*, **2006**, 38, 85-89	2.3	53
37	Study of interfacial adhesion energy of multilayered ULSI thin film structures using four-point bending test. *Surface and Coatings Technology*, **2005**, 198, 85-89	4.4	27
36	Barrier properties of thin Au/Ni□P under bump metallization for Sn□3.5Ag solder. *Surface and Coatings Technology*, **2005**, 198, 283-286	4.4	41
35	Electroless copper seed layer deposition on tantalum nitride barrier film. *Surface and Coatings Technology*, **2005**, 198, 287-290	4.4	22
34	Barrier property of TiSiN films formed by low frequency, high density inductively coupled plasma process. *Surface and Coatings Technology*, **2005**, 198, 291-295	4.4	10
33	Mechanical strength of thermally aged Sn-3.5Ag/Ni-P solder joints. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2005**, 36, 65-75	2.3	29
32	Formation of Ti□Si□N□ film using low frequency, high density inductively coupled plasma process. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 2444		5
31	Electroless copper deposition as a seed layer on TiSiN barrier. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2004**, 22, 1852-1856	2.9	8
30	Separation and characterization of different signals from intermolecular three-spin orders in solution NMR. *Journal of Magnetic Resonance*, **2004**, 171, 244-52	3	7
29	Morphology and kinetic study of the interfacial reaction between the Sn-3.5Ag solder and electroless Ni-P metallization. *Journal of Electronic Materials*, **2004**, 33, 1465-1472	1.9	61
28	Effect of processing parameters on electroless Cu seed layer properties. *Thin Solid Films*, **2004**, 462-463, 197-201	2.2	16
27	Effect of electromigration on interfacial reactions between electroless Ni-P and Sn□3.5% Ag solder. *Thin Solid Films*, **2004**, 462-463, 413-418	2.2	37
26	Effect of post-reflow cooling rate on intermetallic compound formation between Sn□3.5 Ag solder and Ni□P under bump metallization. *Thin Solid Films*, **2004**, 462-463, 363-369	2.2	29
25	Intermetallic compound formation between Sn□3.5Ag solder and Ni-based metallization during liquid state reaction. *Thin Solid Films*, **2004**, 462-463, 376-383	2.2	62
24	Interfacial reaction between Sn-rich solders and Ni-based metallization. *Thin Solid Films*, **2004**, 462-463, 387-394	2.2	35
23	Development and reliability of non-conductive adhesive flip-chip packages. *Thin Solid Films*, **2004**, 462-463, 446-453	2.2	48
22	Solid state interfacial reaction of Sn□37Pb and Sn□3.5Ag solders with Ni□P under bump metallization. *Acta Materialia*, **2004**, 52, 2047-2056	8.4	167
21	The Strength of the Silicon Die in Flip-Chip Assemblies. *Journal of Electronic Packaging, Transactions of the ASME*, **2003**, 125, 114-119	2	35

20	Fracture toughness of Cu-Sn intermetallic thin films. *Journal of Electronic Materials*, **2003**, 32, 166-171	1.9	31
19	Theoretical study on 19F magnetic shielding constants of some metal fluorides. *Magnetic Resonance in Chemistry*, **2003**, 41, 902-907	2.1	15
18	Effect of plating parameters on the intrinsic stress in electroless nickel plating. *Surface and Coatings Technology*, **2003**, 167, 170-176	4.4	31
17	Prediction of the energy dissipation rate in ductile crack propagation. *Fatigue and Fracture of Engineering Materials and Structures*, **2003**, 26, 67-77	3	6
16	The fracture of brittle thin films on compliant substrates in flexible displays. *Engineering Fracture Mechanics*, **2002**, 69, 597-603	4.2	224
15	The Root Angle in Elastoplastic Peeling Tests. *Key Engineering Materials*, **2002**, 227, 41-48	0.4	
14	A mechanical assessment of flexible optoelectronic devices. *Thin Solid Films*, **2001**, 394, 201-205	2.2	271
13	Buckling and cracking of thin films on compliant substrates under compression. *International Journal of Fracture*, **2000**, 104, 169-179	2.3	139
12	Buckling and Fracture of Thin Films under Compression. *Key Engineering Materials*, **2000**, 183-187, 187-192	0.4	5
11	The essential work of fracture and JR curves for the double cantilever beam specimen: an examination of elastoplastic crack propagation. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **1998**, 454, 815-833	2.4	22
10	A Versatile Approach to the Activated Form of (3S, 4R)-Statine and Its Analogues. *Synthetic Communications*, **1998**, 28, 417-426	1.7	14
9	The blister test □Transition from plate to membrane behaviour for an elastic material. *International Journal of Fracture*, **1997**, 86, 191-198	2.3	29
8	Diamond nanospherulite: A novel material produced at carbon-water interface by pulsed-laser ablation. *Science in China Series B: Chemistry*, **1997**, 40, 608-615		2
7	Effect of Ni-P thickness on the tensile strength of Cu/electroless Ni-P/Sn-3.5Ag solder joint		2
6	Flexible electrochromic fiber with rapid color switching and high optical modulation. *Nano Research*,1	10	4
5	Insights into Improving Photoelectrochemical Water-Splitting Performance Using Hematite Anode. *Energy Technology*,2100457	3.5	3
4	Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. *Advanced Functional Materials*,2200359	15.6	7
3	Design of Hierarchical Oxide-Carbon Nanostructures for Trifunctional Electrocatalytic Applications. *Advanced Materials Interfaces*,2200071	4.6	0

2	Steering Unit Cell Dipole and Internal Electric Field by Highly Dispersed Er atoms Embedded into NiO for Efficient CO 2 Photoreduction. *Advanced Functional Materials*,2111999	15.6	3
1	Rational construction of superhydrophobic PDMS/PTW@cotton fabric for efficient UV/NIR light shielding. *Cellulose*,1	5.5	0