

Zhong Chen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1205604/zhong-chen-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A review of one-dimensional TiO ₂ nanostructured materials for environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6772-6801	13	655
612	In-situ formation of hollow hybrids composed of cobalt sulfides embedded within porous carbon polyhedra/carbon nanotubes for high-performance lithium-ion batteries. <i>Advanced Materials</i> , 2015 , 27, 3038-44	24	534
611	High-efficiency photoelectrocatalytic hydrogen generation enabled by palladium quantum dots-sensitized TiO ₂ nanotube arrays. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15720-3	16.4	516
610	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. <i>Advanced Materials</i> , 2009 , 21, 3799-3803	24	397
609	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 31-55	13	394
608	Transparent superhydrophobic/superhydrophilic TiO ₂ -based coatings for self-cleaning and anti-fogging. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7420		386
607	Mechanical force-driven growth of elongated bending TiO ₂ -based nanotubular materials for ultrafast rechargeable lithium ion batteries. <i>Advanced Materials</i> , 2014 , 26, 6111-8	24	358
606	A review on visible light active perovskite-based photocatalysts. <i>Molecules</i> , 2014 , 19, 19995-20022	4.8	346
605	Robust fluorine-free superhydrophobic PDMS@rmosil@fabrics for highly effective self-cleaning and efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12179-12187	13	336
604	Defect Engineered g-C ₃ N ₄ for Efficient Visible Light Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , 2015 , 27, 4930-4933	9.6	308
603	One-dimensional TiO Nanotube Photocatalysts for Solar Water Splitting. <i>Advanced Science</i> , 2017 , 4, 1600152	15.2	295
602	Graphene aerogels for efficient energy storage and conversion. <i>Energy and Environmental Science</i> , 2018 , 11, 772-799	35.4	272
601	A mechanical assessment of flexible optoelectronic devices. <i>Thin Solid Films</i> , 2001 , 394, 201-205	2.2	271
600	Unique P/Co/N Surface Bonding States Constructed on g-C ₃ N ₄ Nanosheets for Drastically Enhanced Photocatalytic Activity of H ₂ Evolution. <i>Advanced Functional Materials</i> , 2017 , 27, 1604328	15.6	266
599	A review of TiO ₂ nanostructured catalysts for sustainable H ₂ generation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 8418-8449	6.7	260
598	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. <i>Advanced Functional Materials</i> , 2013 , 23, 2932-2940	15.6	255
597	In situ surface-modification-induced superhydrophobic patterns with reversible wettability and adhesion. <i>Advanced Materials</i> , 2013 , 25, 1682-6	24	232

596	Hierarchical TiO ₂ Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2772-2780	3.8	231
595	Recent Advances in TiO ₂ -Based Nanostructured Surfaces with Controllable Wettability and Adhesion. <i>Small</i> , 2016 , 12, 2203-24	11	228
594	The fracture of brittle thin films on compliant substrates in flexible displays. <i>Engineering Fracture Mechanics</i> , 2002 , 69, 597-603	4.2	224
593	Nitrogen-doped TiO ₂ nanotube array films with enhanced photocatalytic activity under various light sources. <i>Journal of Hazardous Materials</i> , 2010 , 184, 855-863	12.8	213
592	Titanate and titania nanostructured materials for environmental and energy applications: a review. <i>RSC Advances</i> , 2015 , 5, 79479-79510	3.7	209
591	Ultrasound aided photochemical synthesis of Ag loaded TiO ₂ nanotube arrays to enhance photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2009 , 171, 1045-50	12.8	209
590	Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator. <i>Medical Image Analysis</i> , 2014 , 18, 843-56	15.4	206
589	Development of stable superhydrophobic coatings on aluminum surface for corrosion-resistant, self-cleaning, and anti-icing applications. <i>Materials and Design</i> , 2016 , 93, 261-270	8.1	195
588	Rational design of materials interface at nanoscale towards intelligent oil-water separation. <i>Nanoscale Horizons</i> , 2018 , 3, 235-260	10.8	192
587	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. <i>Small</i> , 2017 , 13, 1602992	11	187
586	Effects of the Structure of TiO ₂ Nanotube Array on Ti Substrate on Its Photocatalytic Activity. <i>Journal of the Electrochemical Society</i> , 2006 , 153, D123	3.9	186
585	Recent progress in two-dimensional COFs for energy-related applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14463-14479	13	185
584	Reducing aggregation caused quenching effect through co-assembly of PAH chromophores and molecular barriers. <i>Nature Communications</i> , 2019 , 10, 169	17.4	178
583	Ag ₂ AgBr/TiO ₂ /RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4718	13	171
582	Robust translucent superhydrophobic PDMS/PMMA film by facile one-step spray for self-cleaning and efficient emulsion separation. <i>Chemical Engineering Journal</i> , 2017 , 330, 26-35	14.7	169
581	Markedly controllable adhesion of superhydrophobic spongelike nanostructure TiO ₂ films. <i>Langmuir</i> , 2008 , 24, 3867-73	4	169
580	Solid state interfacial reaction of Sn ₃ Pb and Sn ₃ .5Ag solders with Ni under bump metallization. <i>Acta Materialia</i> , 2004 , 52, 2047-2056	8.4	167
579	Fabrication of uniform Ag/TiO ₂ nanotube array structures with enhanced photoelectrochemical performance. <i>New Journal of Chemistry</i> , 2010 , 34, 1335	3.6	164

578	Photoelectrocatalytic properties of Ag nanoparticles loaded TiO ₂ nanotube arrays prepared by pulse current deposition. <i>Electrochimica Acta</i> , 2010 , 55, 7211-7218	6.7	162
577	Rational construction of highly transparent superhydrophobic coatings based on a non-particle, fluorine-free and water-rich system for versatile oil-water separation. <i>Chemical Engineering Journal</i> , 2018 , 333, 621-629	14.7	160
576	Behavior of aluminum oxide, intermetallics and voids in Cu/Al wire bonds. <i>Acta Materialia</i> , 2011 , 59, 5661-5673	15.7	157
575	In situ formation of large-scale Ag/AgCl nanoparticles on layered titanate honeycomb by gas phase reaction for visible light degradation of phenol solution. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 577-585	21.8	157
574	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oil/water separation ability. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2122-2128	13	156
573	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. <i>Advanced Materials</i> , 2016 , 28, 1567-76	24	154
572	Unravelling the correlation between the aspect ratio of nanotubular structures and their electrochemical performance to achieve high-rate and long-life lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13488-92	16.4	152
571	Robust Flower-Like TiO ₂ @Cotton Fabrics with Special Wettability for Effective Self-Cleaning and Versatile Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500220	4.6	148
570	Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11873-11881	13	147
569	Optimized porous rutile TiO ₂ nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 1615	35.4	147
568	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1707415	15.6	146
567	Bioinspired Surfaces with Superwettability for Anti-Icing and Ice-Phobic Application: Concept, Mechanism, and Design. <i>Small</i> , 2017 , 13, 1701867	11	145
566	Bioinspired patterning with extreme wettability contrast on TiO ₂ nanotube array surface: a versatile platform for biomedical applications. <i>Small</i> , 2013 , 9, 2945-53	11	144
565	Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9696-9711	16.4	143
564	Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. <i>Advanced Materials</i> , 2019 , 31, e1806314	24	139
563	Buckling and cracking of thin films on compliant substrates under compression. <i>International Journal of Fracture</i> , 2000 , 104, 169-179	2.3	139
562	Icephobic materials: Fundamentals, performance evaluation, and applications. <i>Progress in Materials Science</i> , 2019 , 103, 509-557	42.2	135
561	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. <i>Chemical Communications</i> , 2015 , 51, 3109-12	5.8	135

560	Tribological properties of Cr- and Ti-doped MoS ₂ composite coatings under different humidity atmosphere. <i>Surface and Coatings Technology</i> , 2010 , 205, 224-231	4.4	127
559	Superhydrophilic/Superhydrophobic micropattern on TiO ₂ nanotube films by photocatalytic lithography. <i>Electrochemistry Communications</i> , 2008 , 10, 387-391	5.1	127
558	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 82-88	13	126
557	Phosphonate-Based Metal-Organic Framework Derived Co ^{II} Hybrid as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017 , 7, 6000-6007	13.1	126
556	3D Au-decorated BiMoO ₆ nanosheet/TiO ₂ nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16412-16421	13	125
555	Structure, morphology and properties of Fe-doped ZnO films prepared by facing-target magnetron sputtering system. <i>Applied Surface Science</i> , 2009 , 255, 6881-6887	6.7	124
554	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. <i>Chemical Engineering Journal</i> , 2019 , 355, 290-298	14.7	120
553	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. <i>Chemical Engineering Journal</i> , 2020 , 399, 125746	14.7	119
552	Rational design of multi-layered superhydrophobic coating on cotton fabrics for UV shielding, self-cleaning and oil-water separation. <i>Materials and Design</i> , 2017 , 134, 342-351	8.1	119
551	Development of sol-gel icephobic coatings: effect of surface roughness and surface energy. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20685-92	9.5	118
550	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. <i>Small</i> , 2013 , 9, 996-1002	11	118
549	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. <i>Advanced Energy Materials</i> , 2013 , 3, 1368-1380	21.8	118
548	Electrochemically multi-anodized TiO ₂ nanotube arrays for enhancing hydrogen generation by photoelectrocatalytic water splitting. <i>Electrochimica Acta</i> , 2010 , 55, 4776-4782	6.7	117
547	Liquid mobility on superwetable surfaces for applications in energy and the environment. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 38-63	13	117
546	Water-Soluble Sericin Protein Enabling Stable Solid-Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. <i>Advanced Materials</i> , 2017 , 29, 1701828	24	114
545	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO ₂ Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14973-14982	3.8	111
544	Hydrazine-hydrothermal method to synthesize three-dimensional chalcogenide framework for photocatalytic hydrogen generation. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2644-2649	3.3	111
543	Mechanically robust superhydrophobic and superoleophobic coatings derived by sol-gel method. <i>Materials and Design</i> , 2016 , 89, 1302-1309	8.1	109

542	A PDMS-in-water emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. <i>Nanoscale Horizons</i> , 2020 , 5, 65-73	10.8	107
541	Porous cobalt phosphide/graphitic carbon polyhedral hybrid composites for efficient oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13742-13745	13	106
540	Fabrication of self-cleaning superhydrophobic surface on aluminum alloys with excellent corrosion resistance. <i>Surface and Coatings Technology</i> , 2015 , 276, 341-348	4.4	104
539	Recent Progress of Polysaccharide-Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900761	4.6	103
538	Enhanced photocatalytic performances of n-TiO ₂ nanotubes by uniform creation of p-n heterojunctions with p-Bi ₂ O ₃ quantum dots. <i>Nanoscale</i> , 2015 , 7, 11552-60	7.7	102
537	Progress in TiO nanotube coatings for biomedical applications: a review. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1862-1886	7.3	94
536	Metal-organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2934-2961	13	93
535	Immobilization of Pt Nanoparticles via Rapid and Reusable Electropolymerization of Dopamine on TiO Nanotube Arrays for Reversible SERS Substrates and Nonenzymatic Glucose Sensors. <i>Small</i> , 2017 , 13, 1604240	11	91
534	4D printing and stimuli-responsive materials in biomedical aspects. <i>Acta Biomaterialia</i> , 2019 , 92, 19-36	10.8	91
533	Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review. <i>Small Methods</i> , 2019 , 3, 1800184	12.8	91
532	Understanding the Role of Dynamic Wettability for Condensate Microdrop Self-Propelling Based on Designed Superhydrophobic TiO Nanostructures. <i>Small</i> , 2017 , 13, 1600687	11	89
531	A novel electrochemical strategy for improving blood compatibility of titanium-based biomaterials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 309-13	6	89
530	Advanced colloidal lithography: From patterning to applications. <i>Nano Today</i> , 2018 , 22, 36-61	17.9	89
529	Facile construction of robust fluorine-free superhydrophobic TiO ₂ fabrics with excellent anti-fouling, water-oil separation and UV-protective properties. <i>Materials and Design</i> , 2017 , 128, 1-8	8.1	86
528	TiO nanotube platforms for smart drug delivery: a review. <i>International Journal of Nanomedicine</i> , 2016 , 11, 4819-4834	7.3	86
527	CdSe/CdS quantum dots co-sensitized TiO ₂ nanotube array photoelectrode for highly efficient solar cells. <i>Electrochimica Acta</i> , 2012 , 79, 175-181	6.7	85
526	Highly stable heterostructured Ag ₂ AgBr/TiO ₂ composite: a bifunctional visible-light active photocatalyst for destruction of ibuprofen and bacteria. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23149		84
525	Ambient dissolution-recrystallization towards large-scale preparation of V ₂ O ₅ nanobelts for high-energy battery applications. <i>Nano Energy</i> , 2016 , 22, 583-593	17.1	82

524	A re-examination of the mechanism of thermosonic copper ball bonding on aluminium metallization pads. <i>Scripta Materialia</i> , 2009 , 61, 165-168	5.6	82
523	Elastic modulus, hardness and creep performance of SnBi alloys using nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 253-258	5.3	81
522	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17633-17641	13	80
521	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18395		80
520	Uniform carbon dots@TiO nanotube arrays with full spectrum wavelength light activation for efficient dye degradation and overall water splitting. <i>Nanoscale</i> , 2017 , 9, 16046-16058	7.7	77
519	Mechanically Resistant and Sustainable Cellulose-Based Composite Aerogels with Excellent Flame Retardant, Sound-Absorption, and Superantiwetting Ability for Advanced Engineering Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 927-936	8.3	77
518	Controllable wettability and adhesion on bioinspired multifunctional TiO ₂ nanostructure surfaces for liquid manipulation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18531-18538	13	76
517	Size, temperature, and bond nature dependence of elasticity and its derivatives on extensibility, Debye temperature, and heat capacity of nanostructures. <i>Physical Review B</i> , 2007 , 75,	3.3	75
516	Development of durable self-cleaning coatings using organic/inorganic hybrid sol-gel method. <i>Applied Surface Science</i> , 2015 , 344, 205-212	6.7	74
515	Nitrogen doped TiO ₂ nanotube arrays with high photoelectrochemical activity for photocatalytic applications. <i>Applied Surface Science</i> , 2013 , 280, 523-529	6.7	74
514	Surfactant-thermal method to synthesize a novel two-dimensional oxochalcogenide. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 131-4	4.5	74
513	Recent Progress in Fabrication and Applications of Superhydrophobic Coating on Cellulose-Based Substrates. <i>Materials</i> , 2016 , 9,	3.5	73
512	Self-organized TiO ₂ nanotube arrays with uniform platinum nanoparticles for highly efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6438-6446	6.7	72
511	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14847-14852	16.4	71
510	Cu ₂ O Photocathode for Low Bias Photoelectrochemical Water Splitting Enabled by NiFe-Layered Double Hydroxide Co-Catalyst. <i>Scientific Reports</i> , 2016 , 6, 30882	4.9	70
509	Synthesis of nanostructured silver/silver halides on titanate surfaces and their visible-light photocatalytic performance. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 438-46	9.5	70
508	Self-organized TiO ₂ nanotubes in mixed organic/inorganic electrolytes and their photoelectrochemical performance. <i>Electrochimica Acta</i> , 2009 , 54, 6536-6542	6.7	70
507	Anisotropic Electronic Characteristics, Adsorption, and Stability of Low-Index BiVO Surfaces for Photoelectrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5475-5484	9.5	67

506	A mechanically robust transparent coating for anti-icing and self-cleaning applications. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16043-16052	13	67
505	Sonoelectrochemical synthesis of highly photoelectrochemically active TiO ₂ nanotubes by incorporating CdS nanoparticles. <i>Nanotechnology</i> , 2009 , 20, 295601	3-4	67
504	The role of powder layer thickness on the quality of SLM printed parts. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 948-955	3-4	66
503	Nanoindentation creep of tin and aluminium: A comparative study between constant load and constant strain rate methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 532, 505-510	5-3	66
502	Durable antibacterial and UV-protective Ag/TiO ₂ @ fabrics for sustainable biomedical application. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2593-2606	7-3	66
501	MoS Quantum Dots@TiO ₂ Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. <i>ChemSusChem</i> , 2018 , 11, 1708-1721	8-3	65
500	Anti-Icing Performance of Superhydrophobic Texture Surfaces Depending on Reference Environments. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700836	4-6	65
499	Theoretical Insight into the Mechanism of Photoelectrochemical Oxygen Evolution Reaction on BiVO ₄ Anode with Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18702-18709	3-8	64
498	Molecule-based water-oxidation catalysts (WOCs): cluster-size-dependent dye-sensitized polyoxometalates for visible-light-driven O ₂ evolution. <i>Scientific Reports</i> , 2013 , 3, 1853	4-9	64
497	Site Specific Optical and Photocatalytic Properties of Bi-Doped NaTaO ₃ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11846-11853	3-8	64
496	Anion-Doped NaTaO ₃ for Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22518-22524	3-8	63
495	Visible-light plasmonic photocatalyst anchored on titanate nanotubes: a novel nanohybrid with synergistic effects of adsorption and degradation. <i>RSC Advances</i> , 2012 , 2, 9406	3-7	63
494	Transparent Antibacterial Nanofiber Air Filters with Highly Efficient Moisture Resistance for Sustainable Particulate Matter Capture. <i>iScience</i> , 2019 , 19, 214-223	6-1	62
493	Controlling Na diffusion by rational design of Si-based layered architectures. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4260-7	3-6	62
492	Intermetallic compound formation between Sn ₃ .5Ag solder and Ni-based metallization during liquid state reaction. <i>Thin Solid Films</i> , 2004 , 462-463, 376-383	2-2	62
491	Morphology and kinetic study of the interfacial reaction between the Sn-3.5Ag solder and electroless Ni-P metallization. <i>Journal of Electronic Materials</i> , 2004 , 33, 1465-1472	1-9	61
490	Progress on particulate matter filtration technology: basic concepts, advanced materials, and performances. <i>Nanoscale</i> , 2020 , 12, 437-453	7-7	61
489	New insight into the roles of oxygen vacancies in hematite for solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1074-1082	3-6	59

488	Quantitative test method for evaluation of anti-fingerprint property of coated surfaces. <i>Applied Surface Science</i> , 2011 , 257, 2965-2969	6.7	59
487	Scratch resistance of brittle thin films on compliant substrates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 292-298	5.3	59
486	Multifunctional wettability patterns prepared by laser processing on superhydrophobic TiO nanostructured surfaces. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 342-347	7.3	58
485	Photocatalytic and Adsorption Performances of Faceted Cuprous Oxide (Cu ₂ O) Particles for the Removal of Methyl Orange (MO) from Aqueous Media. <i>Molecules</i> , 2017 , 22,	4.8	58
484	Visible light driven photocatalytic hydrogen evolution and photophysical properties of Bi ³⁺ doped NaTaO ₃ . <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4889-4896	6.7	58
483	Mechanistic investigations of photo-driven processes over TiO ₂ by in-situ DRIFTS-MS: Part 1. Platinization and methanol reforming. <i>Energy and Environmental Science</i> , 2009 , 2, 991	35.4	58
482	Growth of Intermetallic Compounds in Thermosonic Copper Wire Bonding on Aluminum Metallization. <i>Journal of Electronic Materials</i> , 2010 , 39, 124-131	1.9	58
481	A semi-interpenetrating network ionic hydrogel for strain sensing with high sensitivity, large strain range, and stable cycle performance. <i>Chemical Engineering Journal</i> , 2020 , 385, 123912	14.7	58
480	Polyoxometalate immobilized in MIL-101(Cr) as an efficient catalyst for water oxidation. <i>Applied Catalysis A: General</i> , 2016 , 521, 83-89	5.1	57
479	Impact response of aluminum foam core sandwich structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 529, 94-101	5.3	57
478	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 67-87	9.5	57
477	Shear strength and fracture toughness of carbon fibre/epoxy interface: effect of surface treatment. <i>Materials and Design</i> , 2015 , 85, 800-807	8.1	56
476	Hydrophobic sol-gel coatings based on polydimethylsiloxane for self-cleaning applications. <i>Materials and Design</i> , 2015 , 86, 855-862	8.1	56
475	Vertically-aligned Pt-decorated MoS ₂ nanosheets coated on TiO ₂ nanotube arrays enable high-efficiency solar-light energy utilization for photocatalysis and self-cleaning SERS devices. <i>Nano Energy</i> , 2020 , 71, 104579	17.1	54
474	Highly Flexible and Porous Nanoparticle-Loaded Films for Dye Removal by Graphene Oxide-Fungus Interaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34638-34647	9.5	54
473	Bioinspired TiO ₂ nanostructure films with special wettability and adhesion for droplets manipulation and patterning. <i>Scientific Reports</i> , 2013 , 3, 3009	4.9	54
472	Morphology, crystal structure and adsorption performance of hydrothermally synthesized titania and titanate nanostructures. <i>Nanoscale</i> , 2010 , 2, 2751-7	7.7	54
471	A facile method for synthesis of Ag/TiO ₂ nanostructures. <i>Materials Letters</i> , 2008 , 62, 3688-3690	3.3	54

- 470 Transient liquid phase Ag-based solder technology for high-temperature packaging applications. *Journal of Alloys and Compounds*, **2014**, 587, 365-368 5.7 53
- 469 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
- 468 Effect of Ni thickness on solid-state interfacial reactions between Sn₅₀Ag solder and electroless Ni metallization on Cu substrate. *Thin Solid Films*, **2006**, 504, 410-415 2.2 53
- 467 Synthesis and Characterization of Transparent Hydrophobic Sol-Gel Hard Coatings. *Journal of Sol-Gel Science and Technology*, **2006**, 38, 85-89 2.3 53
- 466 Triple-layered nanostructured WO₃ photoanodes with enhanced photocurrent generation and superior stability for photoelectrochemical solar energy conversion. *Nanoscale*, **2014**, 6, 13457-62 7.7 52
- 465 Electronic Structure, Optical Properties, and Photocatalytic Activities of LaFeO₃/NaTaO₃ Solid Solution. *Journal of Physical Chemistry C*, **2012**, 116, 22767-22773 3.8 52
- 464 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
- 463 Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications. *Advanced Materials*, **2021**, 33, e2004577 24 51
- 462 Silver decorated titanate/titania nanostructures for efficient solar driven photocatalysis. *Journal of Solid State Chemistry*, **2012**, 189, 117-122 3.3 50
- 461 A Cobalt-Based Metal-Organic Framework as Cocatalyst on BiVO₄ Photoanode for Enhanced Photoelectrochemical Water Oxidation. *ChemSusChem*, **2018**, 11, 2710-2716 8.3 50
- 460 A general approach towards multi-faceted hollow oxide composites using zeolitic imidazolate frameworks. *Nanoscale*, **2015**, 7, 965-74 7.7 49
- 459 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
- 458 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
- 457 Mechanically robust hydrophobic bio-based epoxy coatings for anti-corrosion application. *Surface and Coatings Technology*, **2019**, 363, 43-50 4.4 48
- 456 Enhanced Li adsorption and diffusion in silicon nanosheets based on first principles calculations. *RSC Advances*, **2013**, 3, 4231 3.7 48
- 455 Lead-free piezoelectric (K_{0.5}Na_{0.5})NbO₃ thin films derived from chemical solution modified with stabilizing agents. *Applied Physics Letters*, **2010**, 97, 102901 3.4 48
- 454 Development and reliability of non-conductive adhesive flip-chip packages. *Thin Solid Films*, **2004**, 462-463, 446-453 2.2 48
- 453 Controlled deposition and enhanced visible light photocatalytic performance of Pt-modified TiO₂ nanotube arrays. *Applied Surface Science*, **2015**, 351, 225-231 6.7 47

452	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10169		47
451	Selective formation of ordered arrays of octacalcium phosphate ribbons on TiO ₂ nanotube surface by template-assisted electrodeposition. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 117-22	6	47
450	Recent Progress on the Superhydrophobic Surfaces with Special Adhesion: From Natural to Biomimetic to Functional. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2011 , 1, 18-34		47
449	Metal-organic framework immobilized cobalt oxide nanoparticles for efficient photocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20607-20613	13	46
448	Nanoindentation study on the creep resistance of SnBi solder alloy with reactive nano-metallic fillers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 232-238	5.3	46
447	Bouncing dynamics of impact droplets on the convex superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2017 , 110, 221601	3.4	45
446	Enhanced visible light hydrogen production via a multiple heterojunction structure with defect-engineered g-C ₃ N ₄ and two-phase anatase/brookite TiO ₂ . <i>Journal of Catalysis</i> , 2016 , 342, 55-62	7.3	45
445	Preparation of magnetically recoverable bentonite-FeO-MnO composite particles for Cd(II) removal from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 748-759	9.3	44
444	Fabrication of a micro-nanostructured superhydrophobic aluminum surface with excellent corrosion resistance and anti-icing performance. <i>RSC Advances</i> , 2016 , 6, 79389-79400	3.7	44
443	A micromechanism study of thermosonic gold wire bonding on aluminum pad. <i>Journal of Applied Physics</i> , 2010 , 108, 113517	2.5	44
442	Multi-layered electroless Ni coatings on powder-sintered NdFeB permanent magnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 302, 216-222	2.8	44
441	When superhydrophobic coatings are icephobic: Role of surface topology. <i>Surface and Coatings Technology</i> , 2019 , 358, 207-214	4.4	44
440	Ice nucleation behaviour on sol-gel coatings with different surface energy and roughness. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21492-500	3.6	43
439	Mechanically robust polyvinylidene fluoride (PVDF) based superhydrophobic coatings for self-cleaning applications. <i>Progress in Organic Coatings</i> , 2016 , 101, 385-390	4.8	43
438	Ultrafast synthesis of layered titanate microspherulite particles by electrochemical spark discharge spallation. <i>Chemistry - A European Journal</i> , 2010 , 16, 7704-8	4.8	43
437	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10297-10300	16.4	43
436	Enhanced visible-light photoelectrochemical behaviour of heterojunction composite with Cu ₂ O nanoparticles-decorated TiO ₂ nanotube arrays. <i>New Journal of Chemistry</i> , 2014 , 38, 4975-4984	3.6	42
435	Specific surface area of titanium dioxide (TiO ₂) particles influences cyto- and photo-toxicity. <i>Toxicology</i> , 2013 , 304, 132-40	4.4	42

434	Bioinspired Soot-Deposited Janus Fabrics for Sustainable Solar Steam Generation with Salt-Rejection. <i>Global Challenges</i> , 2019 , 3, 1800117	4.3	42
433	Multifunctional superhydrophobic composite materials with remarkable mechanochemical robustness, stain repellency, oil-water separation and sound-absorption properties. <i>Chemical Engineering Journal</i> , 2019 , 358, 1610-1619	14.7	42
432	Synthesis, photophysical properties, and photocatalytic applications of Bi doped NaTaO ₃ and Bi doped Na ₂ Ta ₂ O ₆ nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 1708-1713	3.9	41
431	Barrier properties of thin Au/NiB under bump metallization for Sn ₃ .5Ag solder. <i>Surface and Coatings Technology</i> , 2005 , 198, 283-286	4.4	41
430	Design and durability study of environmental-friendly room-temperature processable icephobic coatings. <i>Chemical Engineering Journal</i> , 2019 , 355, 901-909	14.7	40
429	Creep behaviour of eutectic SnBi alloy and its constituent phases using nanoindentation technique. <i>Journal of Alloys and Compounds</i> , 2013 , 574, 98-103	5.7	40
428	In Situ Mechanistic Investigation at the Liquid/Solid Interface by Attenuated Total Reflectance FTIR: Ethanol Photo-Oxidation over Pristine and Platinized TiO ₂ (P25). <i>ACS Catalysis</i> , 2011 , 1, 864-871	13.1	40
427	Controllable construction of ZnO/TiO ₂ patterning nanostructures by superhydrophilic/superhydrophobic templates. <i>New Journal of Chemistry</i> , 2010 , 34, 44-51	3.6	40
426	Strength prediction for bi-axial braided composites by a multi-scale modelling approach. <i>Journal of Materials Science</i> , 2016 , 51, 6002-6018	4.3	40
425	Particulate Matter Capturing via Naturally Dried ZIF-8/Graphene Aerogels under Harsh Conditions. <i>IScience</i> , 2019 , 16, 133-144	6.1	39
424	CuInZnS-decorated graphene nanosheets for highly efficient visible-light-driven photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6359	13	39
423	Effect of the oxygen pressure on the microstructure and optical properties of ZnO films prepared by laser molecular beam epitaxy. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4075-4082	2.8	39
422	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. <i>ACS Omega</i> , 2020 , 5, 986-994	3.9	39
421	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. <i>Journal of Hazardous Materials</i> , 2021 , 403, 124090	12.8	39
420	Transparent icephobic coatings using bio-based epoxy resin. <i>Materials and Design</i> , 2018 , 140, 516-523	8.1	39
419	Multifunctional superamphiphobic fabrics with asymmetric wettability for one-way fluid transport and templated patterning. <i>Cellulose</i> , 2017 , 24, 1129-1141	5.5	38
418	Reduced graphene oxide decorated with tin nanoparticles through electrodeposition for simultaneous determination of trace heavy metals. <i>Electrochimica Acta</i> , 2015 , 174, 207-214	6.7	38
417	Elasticity modulus, hardness and fracture toughness of Ni ₃ Sn ₄ intermetallic thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 423, 107-110	5.3	38

416	Highly efficient visible-light-driven photocatalytic hydrogen evolution by all-solid-state Z-scheme CdS/QDs/ZnIn ₂ S ₄ architectures with MoS ₂ quantum dots as solid-state electron mediator. <i>Applied Surface Science</i> , 2020 , 504, 144406	6.7	38
415	Mono- and co-doped NaTaO ₃ for visible light photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16085-94	3.6	37
414	Interface reaction between an electroless Ni ₃ P metallization and Sn ₃ .5Ag lead-free solder with improved joint reliability. <i>Acta Materialia</i> , 2014 , 71, 69-79	8.4	37
413	Glassy carbon electrode modified by graphene-gold nanocomposite coating for detection of trace lead ions in acetate buffer solution. <i>Thin Solid Films</i> , 2015 , 584, 85-89	2.2	37
412	Substitution induced band structure shape tuning in hybrid perovskites (CH ₃ NH ₃ Pb _{1-x} Sn _x I ₃) for efficient solar cell applications. <i>RSC Advances</i> , 2015 , 5, 107497-107502	3.7	37
411	Enhanced photoelectrochemical activities of a nanocomposite film with a bamboo leaf-like structured TiO ₂ layer on TiO ₂ nanotube arrays. <i>Chemical Communications</i> , 2011 , 47, 2598-600	5.8	37
410	Electrophoretic deposition of titanate nanotube films with extremely large wetting contrast. <i>Electrochemistry Communications</i> , 2009 , 11, 2268-2271	5.1	37
409	Effect of electromigration on interfacial reactions between electroless Ni-P and Sn ₃ .5% Ag solder. <i>Thin Solid Films</i> , 2004 , 462-463, 413-418	2.2	37
408	Elucidating the sources of activity and stability of FeP electrocatalyst for hydrogen evolution reactions in acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118156	21.8	37
407	Fibrous and flexible supercapacitors comprising hierarchical nanostructures with carbon spheres and graphene oxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12761-12768	13	36
406	A theoretical study on the surface and interfacial properties of Ni ₃ P for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7827-7834	13	36
405	Studies on electroless nickel polyalloy coatings over carbon fibers/CFRP composites. <i>Surface and Coatings Technology</i> , 2016 , 302, 389-397	4.4	35
404	Formation and migration of oxygen and zirconium vacancies in cubic zirconia and zirconium oxysulfide. <i>Solid State Ionics</i> , 2012 , 212, 117-122	3.3	35
403	SERS study of Ag nanoparticles electrodeposited on patterned TiO ₂ nanotube films. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 986-991	2.3	35
402	The Strength of the Silicon Die in Flip-Chip Assemblies. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2003 , 125, 114-119	2	35
401	Interfacial reaction between Sn-rich solders and Ni-based metallization. <i>Thin Solid Films</i> , 2004 , 462-463, 387-394	2.2	35
400	Scale-Up of BiVO ₄ Photoanode for Water Splitting in a Photoelectrochemical Cell: Issues and Challenges. <i>Energy Technology</i> , 2018 , 6, 100-109	3.5	35
399	Multi-scale simulation and finite-element-assisted computation of elastic properties of braided textile reinforced composites. <i>Journal of Composite Materials</i> , 2014 , 48, 931-949	2.7	34

398	Polydopamine-Inspired Design and Synthesis of Visible-Light-Driven Ag [email[protected]]@elongated TiO ₂ NTs Core/Shell Nanocomposites for Sustainable Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 558-568	8.3	34
397	Improving Photocatalytic H ₂ Evolution of TiO ₂ via Formation of {001}/{010} Quasi-Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22894-22902	3.8	33
396	Fast acquisition of high-resolution NMR spectra in inhomogeneous fields via intermolecular double-quantum coherences. <i>Journal of Chemical Physics</i> , 2009 , 130, 084504	3.9	33
395	The effect of AlOOH boehmite nanorods on mechanical property of hybrid composite coatings. <i>Thin Solid Films</i> , 2009 , 517, 4871-4874	2.2	33
394	Magnetron sputtered TiO ₂ films on a stainless steel substrate: Selective rutile phase formation and its tribological and anti-corrosion performance. <i>Thin Solid Films</i> , 2011 , 519, 4860-4864	2.2	33
393	Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). <i>Angewandte Chemie</i> , 2019 , 131, 9798-9813	3.6	33
392	Braided textile composites for sports protection: Energy absorption and delamination in impact modelling. <i>Materials and Design</i> , 2017 , 136, 258-269	8.1	32
391	Hierarchical protonated titanate nanostructures for lithium-ion batteries. <i>Nanoscale</i> , 2011 , 3, 4074-7	7.7	32
390	Intermetallic phase transformations in Au/Al wire bonds. <i>Intermetallics</i> , 2011 , 19, 1808-1816	3.5	32
389	Nanoscale morphology for high hydrophobicity of a hard sol-gel thin film. <i>Applied Surface Science</i> , 2008 , 254, 6952-6958	6.7	32
388	Superhydrophilic/Superhydrophobic Template: A Simple Approach to Micro- and Nanostructure Patterning of TiO ₂ Films. <i>Journal of the Electrochemical Society</i> , 2009 , 156, D480	3.9	31
387	Fracture toughness of Cu-Sn intermetallic thin films. <i>Journal of Electronic Materials</i> , 2003 , 32, 166-171	1.9	31
386	Effect of plating parameters on the intrinsic stress in electroless nickel plating. <i>Surface and Coatings Technology</i> , 2003 , 167, 170-176	4.4	31
385	In-situ formation of unsaturated defect sites on converted Co/Ni alloy/Co-Ni LDH to activate MoS ₂ nanosheets for pH-universal hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021 , 412, 128556	14.7	31
384	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 3502	17.4	31
383	Graphene membranes with nanoslits for seawater desalination via forward osmosis. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30551-30561	3.6	30
382	Effect of the size of carbon nanotubes (CNTs) on the microstructure and mechanical strength of CNTs-doped composite Sn _{0.3} Ag _{0.7} Cu-CNTs solder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 727, 160-169	5.3	30
381	Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. <i>Journal of Materials Science and Technology</i> , 2021 , 61, 85-92	9.1	30

380	Uniformly dispersed CdS nanoparticles sensitized TiO ₂ nanotube arrays with enhanced visible-light photocatalytic activity and stability. <i>Journal of Solid State Chemistry</i> , 2013 , 208, 27-34	3.3	29
379	Dual-phase titanate/anatase with nitrogen doping for enhanced degradation of organic dye under visible light. <i>Chemistry - A European Journal</i> , 2011 , 17, 2575-8	4.8	29
378	The blister test – Transition from plate to membrane behaviour for an elastic material. <i>International Journal of Fracture</i> , 1997 , 86, 191-198	2.3	29
377	Effect of post-reflow cooling rate on intermetallic compound formation between Sn _{3.5} Ag solder and Ni ₃ under bump metallization. <i>Thin Solid Films</i> , 2004 , 462-463, 363-369	2.2	29
376	Mechanical strength of thermally aged Sn-3.5Ag/Ni-P solder joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 65-75	2.3	29
375	Recent advances in fabricating durable superhydrophobic surfaces: a review in the aspects of structures and materials. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1655-1682	7.8	29
374	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 13706-13710	3.6	28
373	Effect of bonding duration and substrate temperature in copper ball bonding on aluminium pads: A TEM study of interfacial evolution. <i>Microelectronics Reliability</i> , 2011 , 51, 113-118	1.2	28
372	High-Temperature Stability of Silicon Carbide Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3999-4002	1.3	28
371	Improving the mechanical performance of Sn _{57.6} Bi _{0.4} Ag solder joints on Au/Ni/Cu pads during aging and electromigration through the addition of tungsten (W) nanoparticle reinforcement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 291-303	5.3	28
370	The Self-Passivation Mechanism in Degradation of BiVO ₄ Photoanode. <i>IScience</i> , 2019 , 19, 976-985	6.1	27
369	Constituent materials micro-damage modeling in predicting progressive failure of braided fiber composites. <i>Composite Structures</i> , 2016 , 145, 194-202	5.3	27
368	Co-solvent induced self-roughness superhydrophobic coatings with self-healing property for versatile oil-water separation. <i>Applied Surface Science</i> , 2018 , 459, 512-519	6.7	27
367	Lithium diffusion in (Li, K, Na)NbO ₃ piezoelectric thin films and the resulting approach for enhanced performance properties. <i>Applied Physics Letters</i> , 2011 , 99, 092902	3.4	27
366	Study of interfacial adhesion energy of multilayered ULSI thin film structures using four-point bending test. <i>Surface and Coatings Technology</i> , 2005 , 198, 85-89	4.4	27
365	Formation of superhydrophobic micro-nanostructured iron oxide for corrosion protection of N80 steel. <i>Materials and Design</i> , 2018 , 160, 84-94	8.1	27
364	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Compositized Electrode of Si Nanoparticles and TiO ₂ Nanotubes. <i>Small</i> , 2020 , 16, e2002094	11	26
363	Boosting heterojunction interaction in electrochemical construction of MoS ₂ quantum dots@TiO ₂ nanotube arrays for highly effective photoelectrochemical performance and electrocatalytic hydrogen evolution. <i>Electrochemistry Communications</i> , 2018 , 93, 152-157	5.1	26

- 362 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
- 361 Titanium Diffusion into (K_{0.5}Na_{0.5})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
- 360 Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. *ACS Applied Materials & Interfaces*, **2021**, 13, 4740-4749 9.5 26
- 359 Improved Charge Separation in WO₃/CuWO₄ Composite Photoanodes for Photoelectrochemical Water Oxidation. *Materials*, **2016**, 9, 3.5 26
- 358 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
- 357 High-resolution two-dimensional J-resolved NMR spectroscopy for biological systems. *Biophysical Journal*, **2014**, 106, 2061-70 2.9 25
- 356 Hard TiC_x/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
- 355 Fabrication of patterned CdS/TiO₂ heterojunction by wettability template-assisted electrodeposition. *Materials Letters*, **2010**, 64, 1309-1312 3.3 25
- 354 Atomistic simulation study of GO/HKUST-1 MOF membranes for seawater desalination via pervaporation. *Applied Surface Science*, **2020**, 503, 144198 6.7 25
- 353 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
- 352 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
- 351 Significantly retarded interfacial reaction between an electroless Ni/Pb metallization and lead-free Sn/3.5Ag solder. *Journal of Alloys and Compounds*, **2013**, 565, 11-16 5.7 24
- 350 Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations. *Small*, **2020**, 16, e1907029 11 23
- 349 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
- 348 Adhesion enhancement of sol-gel coating on polycarbonate by heated impregnation treatment. *Thin Solid Films*, **2009**, 517, 4850-4856 2.2 23
- 347 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
- 346 The synergistic catalysis on Co nanoparticles and Co_{Nx} sites of aniline-modified ZIF derived Co@NCs for oxidative esterification of HMF. *Chinese Chemical Letters*, **2021**, 32, 685-690 8.1 23
- 345 NaFeS₂ as a new photocatalytic material for the degradation of industrial dyes. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104005 6.8 22

344	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO ₄ photoanode by W ^{VI} codoping. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16965-16974	13	22
343	Solvent-Free Synthesis and Hydrophobization of Biobased Epoxy Coatings for Anti-Icing and Anticorrosion Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19131-19141	8.3	22
342	High-resolution NMR spectroscopy in inhomogeneous fields. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2015 , 90-91, 1-31	10.4	22
341	Multi-functional hybrid protonated titanate nanobelts with tunable wettability. <i>Soft Matter</i> , 2011 , 7, 6313	3.6	22
340	Effect of Electromigration on the Mechanical Performance of Sn-3.5Ag Solder Joints with Ni and Ni-P Metallizations. <i>Journal of Electronic Materials</i> , 2009 , 38, 78-87	1.9	22
339	Fracture toughness measurement of thin films on compliant substrate using controlled buckling test. <i>Thin Solid Films</i> , 2007 , 515, 3305-3309	2.2	22
338	Electroless copper seed layer deposition on tantalum nitride barrier film. <i>Surface and Coatings Technology</i> , 2005 , 198, 287-290	4.4	22
337	The essential work of fracture and JR curves for the double cantilever beam specimen: an examination of elastoplastic crack propagation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1998 , 454, 815-833	2.4	22
336	Charged graphene aerogel filter enabled superior particulate matter removal efficiency in harsh environment. <i>Chemical Engineering Journal</i> , 2020 , 395, 125086	14.7	22
335	Bi ₂ WO ₆ hollow microspheres with high specific surface area and oxygen vacancies for efficient photocatalysis N ₂ fixation. <i>Chemical Engineering Journal</i> , 2021 , 414, 128827	14.7	22
334	Durable easy-cleaning and antibacterial cotton fabrics using fluorine-free silane coupling agents and CuO nanoparticles. <i>Nano Materials Science</i> , 2020 , 2, 281-291	10.2	22
333	Controllable Superhydrophobic Coating on Cotton Fabric by UV Induced Thiol-ene Reaction for Wettability Patterning and Device Metallization. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700268	4.6	21
332	Mesoporous SiO ₂ /BiVO ₄ /CuO nanospheres for Z-scheme, visible light aerobic C ₂ H ₄ coupling and dehydrogenation. <i>Applied Materials Today</i> , 2019 , 15, 192-202	6.6	21
331	Phase segregation, interfacial intermetallic growth and electromigration-induced failure in Cu/In ₄₈ Sn/Cu solder interconnects under current stressing. <i>Journal of Alloys and Compounds</i> , 2016 , 673, 372-382	5.7	21
330	Effect of TiO ₂ nanoparticle addition on electroless Ni/P under bump metallization for lead-free solder interconnection. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 600, 67-75	5.3	21
329	Nitrogen-sensitized dual phase titanate/titania for visible-light driven phenol degradation. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 518-527	3.3	21
328	Enhanced Li adsorption and diffusion in single-walled silicon nanotubes: an ab initio study. <i>ChemPhysChem</i> , 2013 , 14, 1161-7	3.2	21
327	Effect of phosphorus content on Cu/Ni-P/Sn-3.5Ag solder joint strength after multiple reflows. <i>Journal of Electronic Materials</i> , 2006 , 35, 2126-2134	1.9	21

326	High-resolution ^1H NMR spectroscopy of fish muscle, eggs and small whole fish via Hadamard-encoded intermolecular multiple-quantum coherence. <i>PLoS ONE</i> , 2014 , 9, e86422	3.7	21
325	Corrugated graphene layers for sea water desalination using capacitive deionization. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8552-8562	3.6	20
324	Controllable fabrication of immobilized ternary CdS/Pt-TiO ₂ heteronanostructures toward high-performance visible-light driven photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17753-61	3.6	20
323	Enhanced BiFeO/BiFeO/HO heterogeneous system for sulfamethoxazole decontamination: System optimization and degradation pathways. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 54-65	9.3	20
322	Effect of Interfacial Reaction on the Tensile Strength of Sn-3.5Ag/Ni-P and Sn-37Pb/Ni-P Solder Joints. <i>Journal of Electronic Materials</i> , 2007 , 36, 17-25	1.9	20
321	Temperature and pressure dependence in thermocompression gold stud bonding. <i>Thin Solid Films</i> , 2006 , 504, 379-383	2.2	20
320	TiO ₂ nanotube arrays decorated with Au and Bi ₂ S ₃ nanoparticles for efficient Fe ³⁺ ions detection and dye photocatalytic degradation. <i>Journal of Materials Science and Technology</i> , 2020 , 39, 28-38	9.1	20
319	New insights into the photocatalytic activity of 3-D core-shell P25@silica nanocomposites: impact of mesoporous coating. <i>Dalton Transactions</i> , 2017 , 46, 4994-5002	4.3	19
318	A facile approach to prepare crumpled CoTMPyP/electrochemically reduced graphene oxide nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2017 , 399, 535-541	6.7	19
317	Effect of fiber surface functionalization on shear behavior at carbon fiber/epoxy interface through molecular dynamics analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 126, 105611	8.4	19
316	Green Synthesis of Robust Superhydrophobic Antibacterial and UV-Blocking Cotton Fabrics by a Dual-Stage Silanization Approach. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900032	4.6	19
315	Multifunctional TiO ₂ -Based Particles: The Effect of Fluorination Degree and Liquid Surface Tension on Wetting Behavior. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 355-363	3.1	19
314	New mechanisms of void growth in Au/Al wire bonds: Volumetric shrinkage and intermetallic oxidation. <i>Scripta Materialia</i> , 2011 , 65, 642-645	5.6	19
313	Tailoring Electronic Structure and Size of Ultrastable Metalated Metal-Organic Frameworks with Enhanced Electroconductivity for High-Performance Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10228-10238	16.4	19
312	Magnetically recyclable Bi/Fe-based hierarchical nanostructures via self-assembly for environmental decontamination. <i>Nanoscale</i> , 2016 , 8, 12736-46	7.7	19
311	In vivo and in vitro efficient textile wastewater remediation by <i>Aspergillus niger</i> biosorbent. <i>Nanoscale Advances</i> , 2019 , 1, 168-176	5.1	18
310	Mechanical and Interfacial Properties Characterisation of Single Carbon Fibres for Composite Applications. <i>Experimental Mechanics</i> , 2015 , 55, 1057-1065	2.6	18
309	Evaluation of the corrosion performance of Cu/Al intermetallic compounds and the effect of Pd addition. <i>Microelectronics Reliability</i> , 2016 , 56, 155-161	1.2	18

308	A high-resolution 2D J-resolved NMR detection technique for metabolite analyses of biological samples. <i>Scientific Reports</i> , 2015 , 5, 8390	4.9	18
307	Initial bond formation in thermosonic gold ball bonding on aluminium metallization pads. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1035-1042	5.3	18
306	Improvement of Electromigration Lifetime of Submicrometer Dual-Damascene Cu Interconnects Through Surface Engineering. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G840	3.9	18
305	Influence of solid-state interfacial reactions on the tensile strength of Cu/electroless NiB/SnB.5Ag solder joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 423, 175-179	5.3	18
304	Stearic acid-coated superhydrophobic Fe ₂ O ₃ /Fe ₃ O ₄ composite film on N80 steel for corrosion protection. <i>Surface and Coatings Technology</i> , 2019 , 359, 47-54	4.4	18
303	Rational designed structured superhydrophobic iron oxide surface towards sustainable anti-corrosion and self-cleaning. <i>Chemical Engineering Journal</i> , 2021 , 416, 127768	14.7	18
302	Enhanced Charge Transport and Increased Active Sites on FeO (110) Nanorod Surface Containing Oxygen Vacancies for Improved Solar Water Oxidation Performance. <i>ACS Omega</i> , 2018 , 3, 14973-14980	3.9	18
301	Material Structure and Mechanical Properties of Silicon Nitride and Silicon Oxynitride Thin Films Deposited by Plasma Enhanced Chemical Vapor Deposition. <i>Surfaces</i> , 2018 , 1, 59-72	2.9	18
300	Progressive failure prediction of a landing gear structure of braided composites. <i>Composite Structures</i> , 2017 , 161, 407-418	5.3	17
299	A research on the visible light photocatalytic activity and kinetics of CdS/CdSe co-modified TiO ₂ nanotube arrays. <i>Surface and Coatings Technology</i> , 2015 , 261, 356-363	4.4	17
298	Density functional theory study of sulfur tolerance of copper: New copper-sulfur phase diagram. <i>Chemical Physics Letters</i> , 2012 , 533, 20-24	2.5	17
297	The effect of line width on stress-induced voiding in Cu dual damascene interconnects. <i>Thin Solid Films</i> , 2006 , 504, 298-301	2.2	17
296	Formation and characterization of TiSiN barrier films. <i>Thin Solid Films</i> , 2006 , 504, 218-222	2.2	17
295	In Situ Monitoring Potential-Dependent Electrochemical Process by Liquid NMR Spectroelectrochemical Determination: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2017 , 89, 3810-3813	7.8	16
294	Effect of surface treatment on adhesion strength between magnetron sputtered copper thin films and alumina substrate. <i>Applied Surface Science</i> , 2015 , 355, 509-515	6.7	16
293	Enhanced photoelectrochemical water splitting performance using morphology-controlled BiVO ₄ with W doping. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2640-2647	3	16
292	Poly Tri-s-triazines as Visible Light Sensitizers in Titania-Based Composite Photocatalysts: Promotion of Melon Development from Urea over Acid Titanates. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 149-157	8.3	16
291	Creep behavior of SnBi solder alloys at elevated temperatures studied by nanoindentation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4114-4124	2.1	16

290	The influence of temperature and dielectric materials on stress induced voiding in Cu dual damascene interconnects. <i>Thin Solid Films</i> , 2006 , 504, 161-165	2.2	16
289	Effect of processing parameters on electroless Cu seed layer properties. <i>Thin Solid Films</i> , 2004 , 462-463, 197-201	2.2	16
288	Hydroxyapatite-modified micro/nanostructured titania surfaces with different crystalline phases for osteoblast regulation. <i>Bioactive Materials</i> , 2021 , 6, 1118-1129	16.7	16
287	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. <i>Angewandte Chemie</i> , 2017 , 129, 15043-15048	3.6	15
286	Comparative study of Keggin-type polyoxometalate pillared layered double hydroxides via two synthetic routes: Characterization and catalytic behavior in green epoxidation of cyclohexene. <i>Applied Clay Science</i> , 2017 , 150, 210-216	5.2	15
285	Nanostructured TiO ₂ for light-driven CO ₂ conversion into solar fuels. <i>APL Materials</i> , 2020 , 8, 040914	5.7	15
284	An investigation into different nickel and nickel-phosphorus stacked thin coatings for the corrosion protection of electrical contacts. <i>Surface and Coatings Technology</i> , 2016 , 300, 95-103	4.4	15
283	Electrochemical and long term corrosion behavior of Mn and Mo oxyanions sealed anodic oxide surface developed on aerospace aluminum alloy (AA2024). <i>Surface and Coatings Technology</i> , 2016 , 288, 115-125	4.4	15
282	Customized glass sealant for ceramic substrates for high temperature electronic application. <i>Microelectronics Reliability</i> , 2014 , 54, 2905-2910	1.2	15
281	Uniformly dispersed and controllable ligand-free silver-nanoparticle-decorated TiO ₂ nanotube arrays with enhanced photoelectrochemical behaviors. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2746-54	4.5	15
280	Self-assembled monolayers for reduced temperature direct metal thermocompression bonding. <i>Applied Physics Letters</i> , 2007 , 91, 061913	3.4	15
279	Theoretical study on 19F magnetic shielding constants of some metal fluorides. <i>Magnetic Resonance in Chemistry</i> , 2003 , 41, 902-907	2.1	15
278	The Influence of Ti Doping on Morphology and Photoelectrochemical Properties of Hematite Grown from Aqueous Solution for Water Splitting. <i>Energy Technology</i> , 2018 , 6, 2188-2199	3.5	14
277	High-resolution methods for the measurement of scalar coupling constants. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2018 , 109, 135-159	10.4	14
276	Reaction Mechanisms of Ethylenediaminetetraacetic Acid and Diethanolamine in the Precursor Solution for Producing (K, Na)NbO ₃ Thin Films with Outstanding Piezoelectric Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15550-15556	3.8	14
275	Critical temperatures in thermocompression gold stud bonding. <i>Journal of Applied Physics</i> , 2007 , 102, 063519	2.5	14
274	A Versatile Approach to the Activated Form of (3S, 4R)-Statine and Its Analogues. <i>Synthetic Communications</i> , 1998 , 28, 417-426	1.7	14
273	Versatile, Robust, and Facile Approach for in Situ Monitoring Electrocatalytic Processes through Liquid Electrochemical NMR Spectroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 1686-1691	7.8	14

272	Bioinspired structural and functional designs towards interfacial solar steam generation for clean water production. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1510-1524	7.8	14
271	Bioinspired Mechano-Sensitive Macroporous Ceramic Sponge for Logical Drug and Cell Delivery. <i>Advanced Science</i> , 2017 , 4, 1600410	13.6	13
270	Enhancing creep resistance of SnBi solder alloy with non-reactive nano fillers: A study using nanoindentation. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 498-506	5.7	13
269	Robust amphiprotic konjac glucomannan cross-linked chitosan aerogels for efficient water remediation. <i>Cellulose</i> , 2019 , 26, 6785-6796	5.5	13
268	Effect of palladium on the mechanical properties of CuAl intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 628, 107-112	5.7	13
267	Damage accumulation in braided textiles-reinforced composites under repeated impacts: Experimental and numerical studies. <i>Composite Structures</i> , 2018 , 204, 256-267	5.3	13
266	Waterborne bio-based epoxy coatings for the corrosion protection of metallic substrates. <i>Progress in Organic Coatings</i> , 2019 , 136, 105265	4.8	13
265	General Two-Dimensional Absorption-Mode J-Resolved NMR Spectroscopy. <i>Analytical Chemistry</i> , 2017 , 89, 12646-12651	7.8	13
264	Effect of sulfur impurity on the stability of cubic zirconia and its interfaces with metals. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12363		13
263	Underfill selection methodology for fine pitch Cu/low-k FCPGA packages. <i>Microelectronics Reliability</i> , 2009 , 49, 150-162	1.2	13
262	Effect of chain length on low temperature gold-gold bonding by self-assembled monolayers. <i>Applied Physics Letters</i> , 2008 , 92, 131913	3.4	13
261	A breathable and environmentally friendly superhydrophobic coating for anti-condensation applications. <i>Chemical Engineering Journal</i> , 2021 , 412, 128725	14.7	13
260	Bioinspired fabrication SERS substrate based on superwetttable patterned platform for multiphase high-sensitive detecting. <i>Composites Communications</i> , 2018 , 10, 151-156	6.7	13
259	Measuring J values with a selective constant-time 2D NMR protocol. <i>Journal of Magnetic Resonance</i> , 2016 , 272, 20-24	3	12
258	Effect of carbon nanotubes and their dispersion on electroless NiP under bump metallization for lead-free solder interconnection. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 2682-2691	2.1	12
257	Transition metal-doped BiFeO ₃ nanofibers: forecasting the conductivity limit. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23089-95	3.6	12
256	Effect of ultrasonic energy on nanoscale interfacial structure in copper wire bonding on aluminium pads. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 145301	3	12
255	A superhydrophobic TPU/CNTs@SiO ₂ coating with excellent mechanical durability and chemical stability for sustainable anti-fouling and anti-corrosion. <i>Chemical Engineering Journal</i> , 2022 , 434, 134605	14.7	12

254	First-principles investigation of the electronic properties of the BiO(101)/BiVO(010) heterojunction towards more efficient solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2449-2456	3.6	12
253	An Orthogonal-Pattern Absorption-Mode 2D J-Resolved NMR Spectroscopy for Analyses on Complex Samples. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	12
252	Controllable synthesis and capacitive performance of nitrogen-doped porous carbon from carboxymethyl chitosan by template carbonization method. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 3087-3096	2.6	11
251	Mechanically Robust Transparent Anti-Icing Coatings: Roles of Dispersion Status of Titanate Nanotubes. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800773	4.6	11
250	Rational Design of the Nanostructure Features on Superhydrophobic Surfaces for Enhanced Dynamic Water Repellency. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9958-9965	8.3	11
249	Pb-Free Glass Paste: A Metallization-Free Die-Attachment Solution for High-Temperature Application on Ceramic Substrates. <i>Journal of Electronic Materials</i> , 2013 , 42, 2667-2676	1.9	11
248	Improved binding and stability in Si/CNT hybrid nanostructures via interfacial functionalization: a first-principles study. <i>RSC Advances</i> , 2013 , 3, 8446	3.7	11
247	A novel in situ electrochemical NMR cell with a palisade gold film electrode. <i>AIP Advances</i> , 2017 , 7, 085205		11
246	Cu ₂ ZnS nanoporous spheres for highly efficient visible-light-driven photocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2013 , 37, 1878	3.6	11
245	Copper diffusion in TiSi ₃ layers formed by inductively coupled plasma implantation. <i>Applied Surface Science</i> , 2006 , 253, 530-534	6.7	11
244	Porous cobalt@N-doped carbon derived from chitosan for oxidative esterification of 5-Hydroxymethylfurfural: The roles of zinc in the synthetic and catalytic process. <i>Molecular Catalysis</i> , 2020 , 482, 110695	3.3	11
243	Solar-driven hydrogen generation coupled with urea electrolysis by an oxygen vacancy-rich catalyst. <i>Chemical Engineering Journal</i> , 2021 , 414, 128753	14.7	11
242	Interfacial reinforcement structure design towards ultrastable lithium storage in MoS ₂ -based composited electrode. <i>Chemical Engineering Journal</i> , 2021 , 416, 129094	14.7	11
241	Atmospheric corrosion resistance of electroplated Ni/NiP/Au electronic contacts. <i>Microelectronics Reliability</i> , 2016 , 60, 84-92	1.2	11
240	Fast and Simple Construction of Efficient Solar-Water-Splitting Electrodes with Micrometer-Sized Light-Absorbing Precursor Particles. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600119	6.8	11
239	Rational Construction of LaFeO ₃ Perovskite Nanoparticle-Modified TiO ₂ Nanotube Arrays for Visible-Light Driven Photocatalytic Activity. <i>Coatings</i> , 2018 , 8, 374	2.9	11
238	Identifying Key Factors towards Highly Reflective Silver Coatings. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-12	1.5	10
237	Catalytically Active Sites on NiP for Efficient Hydrogen Evolution Reaction From Atomic Scale Calculation. <i>Frontiers in Chemistry</i> , 2019 , 7, 444	5	10

236	A computational study of the effect of alloying additions on the stability of Ni/c-ZrO ₂ interfaces. <i>Surface Science</i> , 2013 , 611, 5-9	1.8	10
235	Accelerated NMR Spectroscopy with Low-Rank Reconstruction. <i>Angewandte Chemie</i> , 2015 , 127, 866-868	3.6	10
234	Cationic quaternary chalcogenide nanobelts: Hg ₄ In ₂ Q ₃ Cl ₈ (Q = S, Se, Te). <i>RSC Advances</i> , 2012 , 2, 6401	3.7	10
233	Facilitating intermetallic formation in wire bonding by applying a pre-ultrasonic energy. <i>Microelectronic Engineering</i> , 2011 , 88, 3155-3157	2.5	10
232	The role of bonding duration in wire bond formation: a study of footprints of thermosonic gold wire on aluminium pad. <i>Microelectronics International</i> , 2010 , 27, 11-16	0.8	10
231	Formation and characterization of magnetron sputtered TaSiN thin films. <i>Thin Solid Films</i> , 2009 , 517, 5207-5211	2.2	10
230	Barrier property of TiSiN films formed by low frequency, high density inductively coupled plasma process. <i>Surface and Coatings Technology</i> , 2005 , 198, 291-295	4.4	10
229	Cyclic Voltammetric Study of High Speed Silver Electrodeposition and Dissolution in Low Cyanide Solutions. <i>International Journal of Electrochemistry</i> , 2016 , 2016, 1-11	2.4	10
228	Effective charge separation towards enhanced photocatalytic activity via compositing reduced graphene oxide with two-phase anatase/brookite TiO ₂ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 10590-10597	6.7	10
227	SiBCN-ZrO ₂ hybrid ceramic aerogels through the polymer-derived ceramics (PDCs) route. <i>Ceramics International</i> , 2018 , 44, 22991-22996	5.1	10
226	Fog catcher brushes with environmental friendly slippery alumina micro-needle structured surface for efficient fog-harvesting. <i>Journal of Cleaner Production</i> , 2021 , 315, 127862	10.3	10
225	Ultrahigh-Resolution NMR Spectroscopy for Rapid Chemical and Biological Applications in Inhomogeneous Magnetic Fields. <i>Analytical Chemistry</i> , 2017 , 89, 7115-7122	7.8	9
224	Modelling of Damage Evolution in Braided Composites: Recent Developments. <i>Mechanics of Advanced Materials and Modern Processes</i> , 2017 , 3,	2.2	9
223	Supercapacitive performance of single phase CuO nanosheet arrays with ultra-long cycling stability. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 731-739	5.7	9
222	Ultra-fine pitch palladium-coated copper wire bonding: Effect of bonding parameters. <i>Microelectronics Reliability</i> , 2014 , 54, 2555-2563	1.2	9
221	NMR-based metabonomic analysis of MnO-embedded iron oxide nanoparticles as potential dual-modal contrast agents. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	9
220	A simultaneous multi-slice selective J-resolved experiment for fully resolved scalar coupling information. <i>Journal of Magnetic Resonance</i> , 2017 , 282, 27-31	3	9
219	Structural, compositional and hardness properties of hydrogenated amorphous carbon nitride thin films synthesized by dense plasma focus device. <i>Surface and Interface Analysis</i> , 2017 , 49, 548-553	1.5	9

218	Fracture Toughness and Elastic Modulus of Epoxy-Based Nanocomposites with Dopamine-Modified Nano-Fillers. <i>Materials</i> , 2017 , 10,	3.5	9
217	A multifunctional and environmentally-friendly method to fabricate superhydrophilic and self-healing coatings for sustainable antifogging. <i>Chemical Engineering Journal</i> , 2021 , 409, 128228	14.7	9
216	Solar-assisted isotropically thermoconductive sponge for highly viscous crude oil spill remediation. <i>IScience</i> , 2021 , 24, 102665	6.1	9
215	A preliminary study on the preparation of nanostructured Ti-doped Li ₄ SiO ₄ pebbles by two-step sintering process. <i>Ceramics International</i> , 2018 , 44, 16209-16213	5.1	9
214	Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics.. <i>Nano-Micro Letters</i> , 2022 , 14, 61	19.5	9
213	Effect of a fluoroalkyl-functional curing agent on the wettability, thermal and mechanical properties of hydrophobic biobased epoxy coatings. <i>Surface and Coatings Technology</i> , 2019 , 362, 274-284	1.4	8
212	Strategies of Anode Materials Design towards Improved Photoelectrochemical Water Splitting Efficiency. <i>Coatings</i> , 2019 , 9, 309	2.9	8
211	Mask-less preparation of Janus particles through ultraviolet irradiation on hydrophobic particles assembled at the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2019 , 546, 285-292	9.3	8
210	Study of Structural and Mechanical Properties of WN/a-Si ₃ N ₄ Hard Coatings Grown by Plasma Focus. <i>Journal of Fusion Energy</i> , 2015 , 34, 435-442	1.6	8
209	High-resolution heteronuclear multi-dimensional NMR spectroscopy in magnetic fields with unknown spatial variations. <i>Journal of Magnetic Resonance</i> , 2014 , 242, 49-56	3	8
208	Effect of oxygen concentration on the thermal stability of magnetron sputtered amorphous Ta ₂ Ni thin films. <i>Thin Solid Films</i> , 2012 , 520, 2356-2361	2.2	8
207	Simulation of bleeder flow and curing of thick composites with pressure and temperature dependent properties. <i>Simulation Modelling Practice and Theory</i> , 2013 , 32, 64-82	3.9	8
206	Modification of Ta/Polymeric Low-k Interface by Electron-Beam Treatment. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G30	3.9	8
205	Reservoir effect and the role of low current density regions on electromigration lifetimes in copper interconnects. <i>Journal of Materials Research</i> , 2006 , 21, 2241-2245	2.5	8
204	Electroless copper deposition as a seed layer on TiSiN barrier. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 1852-1856	2.9	8
203	Smart surfaces with reversibly switchable wettability: Concepts, synthesis and applications.. <i>Advances in Colloid and Interface Science</i> , 2021 , 300, 102584	14.3	8
202	SiBCN ceramic aerogel/graphene composites prepared via sol-gel infiltration process and polymer-derived ceramics (PDCs) route. <i>Ceramics International</i> , 2020 , 46, 7001-7008	5.1	8
201	Uniform spatial distribution of a nanostructured Ag/AgCl plasmonic photocatalyst and its segregative membrane towards visible light-driven photodegradation. <i>CrystEngComm</i> , 2016 , 18, 3725-3733	3.3	8

200	Exfoliation of 2D materials by saponin in water: Aerogel adsorption / photodegradation organic dye. <i>Chemosphere</i> , 2021 , 274, 129795	8.4	8
199	An effective and low-consumption foam finishing strategy for robust functional fabrics with on-demand special wettability. <i>Chemical Engineering Journal</i> , 2021 , 426, 131245	14.7	8
198	Hydrogel materials for sustainable water resources harvesting & treatment: Synthesis, mechanism and applications. <i>Chemical Engineering Journal</i> , 2022 , 439, 135756	14.7	8
197	Immobilization of well-dispersed Ag nanoparticles on calcium niobate nanosheets as highly active catalyst towards reduction of 4-nitrophenol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 110, 92-99	5.3	7
196	CH-Interaction Driven Macroscopic Property Transition on Smart Polymer Surface. <i>Scientific Reports</i> , 2015 , 5, 15742	4.9	7
195	Copper diffusion barrier performance of amorphous TaN thin films. <i>Applied Surface Science</i> , 2012 , 258, 3158-3162	6.7	7
194	Separation and characterization of different signals from intermolecular three-spin orders in solution NMR. <i>Journal of Magnetic Resonance</i> , 2004 , 171, 244-52	3	7
193	Robust Superhydrophobic rGO/PPy/PDMS Coatings on a Polyurethane Sponge for Underwater Pressure and Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	7
192	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. <i>Angewandte Chemie</i> , 2020 , 132, 10383-10386	3.6	7
191	Cobalt tungsten phosphide with tunable W-doping as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Nano Research</i> , 2021 , 14, 4073	10	7
190	Interfacial evolution and bond reliability in thermosonic Pd coated Cu wire bonding on aluminum metallization: Effect of palladium distribution. <i>Microelectronics Reliability</i> , 2016 , 63, 214-223	1.2	7
189	Enhanced thermal shrinkage behavior of phenolic-derived carbon aerogel-reinforced by HNTs with superior compressive strength performance. <i>Ceramics International</i> , 2021 , 47, 6487-6495	5.1	7
188	Microstructure and wear characteristics of in-situ micro/nanoscale niobium carbide reinforced copper composites fabricated through powder metallurgy. <i>Materials Characterization</i> , 2021 , 172, 110847	3.9	7
187	The electrochemical oxidation of hydroquinone and catechol through polyaniline and poly(aspartic acid) thin films: A comparative study. <i>AIP Advances</i> , 2018 , 8, 095007	1.5	7
186	Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. <i>Advanced Functional Materials</i> , 2200359	15.6	7
185	Understanding the bonding mechanisms of directly sputtered copper thin film on an alumina substrate. <i>Thin Solid Films</i> , 2017 , 634, 6-14	2.2	6
184	A study of structural and mechanical properties of nano-crystalline tungsten nitride film synthesis by plasma focus. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 73-83	0.9	6
183	Feasibility of Ultrafast Intermolecular Single-Quantum Coherence Spectroscopy in Analysis of Viscous-Liquid Foods. <i>Food Analytical Methods</i> , 2015 , 8, 1682-1690	3.4	6

182	Line broadening interference for high-resolution nuclear magnetic resonance spectra under inhomogeneous magnetic fields. <i>Journal of Chemical Physics</i> , 2015 , 142, 134202	3.9	6
181	Janus-like particles prepared through partial UV irradiation at the water/oil interface and their encapsulation capabilities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 589, 124460	5.1	6
180	Facile fabrication of Fe-doped SiO ₂ ceramic microspheres with flower-like morphology and the infrared extinction property. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 94, 461-467	2.3	6
179	Fast quantification of fatty acid profile of intact fish by intermolecular double-quantum coherence 1H-NMR spectroscopy. <i>European Journal of Lipid Science and Technology</i> , 2016 , 118, 1150-1159	3	6
178	Influence of cure kinetic, rheological and thermo-mechanical behavior on micro-level curing strain of an epoxy prepreg. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 124, 305-316	4.1	6
177	Nanotubes: Mechanical Force-Driven Growth of Elongated Bending TiO ₂ -based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries (Adv. Mater. 35/2014). <i>Advanced Materials</i> , 2014 , 26, 6046-6046	24	6
176	Fast 3D gradient shimming by only 2D pixels in XY plane for NMR-solution samples. <i>Journal of Magnetic Resonance</i> , 2014 , 248, 13-8	3	6
175	TiO ₂ -Based Nanomaterials: Design, Synthesis, and Applications. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-3	3.2	6
174	Mechanical properties of Al/a-C nanocomposite thin films synthesized using a plasma focus device. <i>Chinese Physics B</i> , 2014 , 23, 025204	1.2	6
173	The formation of micrometer-long TiO ₂ nanotube arrays by anodization of titanium film on conducting glass substrate. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2011 , 2, 045002	1.6	6
172	Synthesis and Spectroscopic Characterizations of an Insulinomimetic Peroxovanadate Complex in Aqueous Solution. <i>Chinese Journal of Chemistry</i> , 2010 , 21, 746-750	4.9	6
171	Scratch resistance of protective sol-gel coatings on polymeric substrates. <i>Tribology and Interface Engineering Series</i> , 2008 , 55, 325-353		6
170	Effect of Ni ₃ P Thickness on the Tensile Strength of Cu/Electroless Ni ₃ P/Sn ₃ .5Ag Solder Joint. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2006 , 29, 886-892		6
169	Enhancing direct metal bonding with self-assembled monolayers. <i>Thin Solid Films</i> , 2006 , 504, 367-370	2.2	6
168	Prediction of the energy dissipation rate in ductile crack propagation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2003 , 26, 67-77	3	6
167	Serum metabolomic analysis of the effect of exercise on nonalcoholic fatty liver disease. <i>Endocrine Connections</i> , 2019 , 8, 299-308	3.5	6
166	Amino-rich surface-modified MXene as anode for hybrid aqueous proton supercapacitors with superior volumetric capacity. <i>Journal of Power Sources</i> , 2021 , 495, 229790	8.9	6
165	Freestanding MoS ₂ @carbonized cellulose aerogel derived from waste cotton for sustainable and highly efficient particulate matter capturing. <i>Separation and Purification Technology</i> , 2021 , 254, 117571	8.3	6

164	HNTs/SiO ₂ dual-network aerogels with improved strength and thermal insulation. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 88, 519-527	2.3	6
163	Mechanical and interfacial behavior of single mullite fiber and mullite fiber-based porous ceramics. <i>Ceramics International</i> , 2018 , 44, 14446-14456	5.1	6
162	Water Splitting: One-dimensional TiO ₂ Nanotube Photocatalysts for Solar Water Splitting (Adv. Sci. 1/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	5
161	Removal of chlorobenzene using a sequential adsorption-plasma catalytic system over Ag-, Ce- and Mn-modified activated carbon catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1788-1799	3.5	5
160	Stable Active Sites on Ni ₁₂ P ₅ Surfaces for the Hydrogen Evolution Reaction. <i>Energy Technology</i> , 2019 , 7, 1900013	3.5	5
159	Nanostructured photoelectrochemical solar cells with polyaniline nanobelts acting as hole conductors. <i>Ionics</i> , 2015 , 21, 1781-1786	2.7	5
158	Titanium mesh-supported TiO ₂ nano-film for the photocatalytic degradation of ethylene under a UV-LED. <i>Ceramics International</i> , 2020 , 46, 20830-20837	5.1	5
157	Preparation of Janus Titanium Dioxide Particles via Ultraviolet Irradiation of Pickering Emulsions. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901961	4.6	5
156	A pure shift and spin echo based approach for high-resolution diffusion-ordered NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2019 , 305, 209-218	3	5
155	PE-SERF: A sensitivity-improved experiment to measure J in crowded spectra. <i>Journal of Magnetic Resonance</i> , 2019 , 308, 106590	3	5
154	One-pot solvothermal synthesis of dual-phase titanate/titania Nanoparticles and their adsorption and photocatalytic Performances. <i>Journal of Solid State Chemistry</i> , 2014 , 214, 67-73	3.3	5
153	Influence of Different CH ₄ /N ₂ Ratios on Structural and Mechanical Properties of a-CN _x :H Film Synthesized Using Plasma Focus. <i>Journal of Fusion Energy</i> , 2014 , 33, 640-647	1.6	5
152	Discrete decoding based ultrafast multidimensional nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 143, 024201	3.9	5
151	Palladium-Coated and Bare Copper Wire Study for Ultra-Fine Pitch Wire Bonding. <i>ECS Transactions</i> , 2013 , 52, 717-730	1	5
150	Single-Crystalline InVO ₄ Nanotubes by Self-Template-Directed Fabrication. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 596-600	3.8	5
149	Immersion nickel deposition on blank silicon in aqueous solution containing ammonium fluoride. <i>Thin Solid Films</i> , 2007 , 515, 4696-4701	2.2	5
148	Factors towards Pencil Scratch Resistance of Protective Sol-Gel Coatings on Polycarbonate Substrate. <i>Key Engineering Materials</i> , 2006 , 312, 339-344	0.4	5
147	Effect of electron beam treatment on adhesion of Ta/polymeric low-k interface. <i>Applied Physics Letters</i> , 2006 , 88, 233510	3.4	5

146	Formation of TiSi ₂ film using low frequency, high density inductively coupled plasma process. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 2444		5
145	Buckling and Fracture of Thin Films under Compression. <i>Key Engineering Materials</i> , 2000 , 183-187, 187-192		5
144	Improvement in Signal-to-Noise Ratio of Liquid-State NMR Spectroscopy via a Deep Neural Network DN-Unet. <i>Analytical Chemistry</i> , 2021 , 93, 1377-1382	7.8	5
143	Experimental investigation of the anti-soiling performances of different wettability of transparent coatings: Superhydrophilic, hydrophilic, hydrophobic and superhydrophobic coatings. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111053	6.4	5
142	A General Strategy towards Superhydrophobic Self-Cleaning and Anti-Corrosion Metallic Surfaces: An Example with Aluminum Alloy. <i>Coatings</i> , 2021 , 11, 788	2.9	5
141	In-situ measurement and numerical simulation of resin pressure during Glass/Epoxy prepreg composite manufacturing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 94, 505-514	4.6	5
140	Evaluation of Oolong Teas Using 1H and 13C Solid-state NMR, Sensory Analysis, and Multivariate Statistics. <i>Journal of the Chinese Chemical Society</i> , 2016 , 63, 792-799	1.5	5
139	Corrosion Protection of N80 Steel in Hydrochloric Acid Medium Using Mixed C15H15NO and Na2WO4 Inhibitors. <i>Coatings</i> , 2018 , 8, 315	2.9	5
138	Structural, photocatalytic and electrochemical studies on facile combustion synthesized low-cost nano chromium (III) doped polycrystalline magnesium aluminate spinels. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 6, 462-471	4.2	5
137	Nanostructured NaFeS ₂ as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. <i>Chemical Engineering Journal</i> , 2021 , 426, 131315	14.7	5
136	Accelerating two-dimensional nuclear magnetic resonance correlation spectroscopy via selective coherence transfer. <i>Journal of Chemical Physics</i> , 2017 , 146, 014202	3.9	4
135	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). <i>Advanced Materials</i> , 2019 , 31, 1970110	24	4
134	Two-Dimensional J-Resolved NMR Analyses of Fish and Its Products via Spatially Encoded Intermolecular Double-Quantum Coherences. <i>Food Analytical Methods</i> , 2016 , 9, 1502-1511	3.4	4
133	Nanostructure Restoration of Thermally Reduced Graphene Oxide Electrode upon Incorporation of Nafion for Detection of Trace Heavy Metals in Aqueous Solution. <i>Electroanalysis</i> , 2016 , 28, 2037-2043	3	4
132	Flow-compacted deformations coupled with thermo-chemically induced distortions in manufacturing of thick unidirectional carbon fiber reinforced plastics composites. <i>Journal of Composite Materials</i> , 2016 , 50, 3325-3343	2.7	4
131	High-Resolution Probing of Heterogeneous Samples by Spatially Selective Pure Shift NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7356-7361	6.4	4
130	Tin whiskers growth of SnAgIn solder on Kovar substrate with Au/Ni plating. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1222-1227	2.1	4
129	Interface Reaction Between Electroless NiSn Metallization and Lead-Free Sn63Ag Solder with Suppressed Ni3P Formation. <i>Journal of Electronic Materials</i> , 2014 , 43, 4103-4110	1.9	4

128	High-resolution NMR spectra in inhomogeneous and unstable fields via the three-pulse method. <i>Molecular Physics</i> , 2010 , 108, 1869-1875	1.7	4
127	Enabling Low Temperature Copper Bonding with an Organic Monolayer. <i>Advanced Materials Research</i> , 2009 , 74, 133-136	0.5	4
126	Advances in high-resolution nuclear magnetic resonance methods in inhomogeneous magnetic fields using intermolecular multiple quantum coherences 2009 , 52, 58-69		4
125	Bias-Temperature Stability of TiSiN ₂ Films. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G470	3.9	4
124	NMR Spectroelectrochemistry in Studies of Dopamine Oxidation. <i>Electrochemistry</i> , 2020 , 88, 200-204	1.2	4
123	Enhanced tensile properties and corrosion resistance of stainless steel with copper-coated graphene fillers. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 404-412	5.5	4
122	Sol-gel synthesis of highly reproducible WO ₃ photoanodes for solar water oxidation. <i>Science China Materials</i> , 2020 , 63, 2261-2271	7.1	4
121	High-resolution nuclear magnetic resonance measurements in inhomogeneous magnetic fields: A fast two-dimensional J-resolved experiment. <i>Journal of Chemical Physics</i> , 2016 , 144, 104202	3.9	4
120	Controllable synthesis of carbon nanosheets derived from oxidative polymerisation of m-phenylenediamine. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 437-444	9.3	4
119	Laterally pre-compressed SiC tiles against long rod impact. <i>Defence Technology</i> , 2018 , 14, 585-589	3	4
118	Flexible electrochromic fiber with rapid color switching and high optical modulation. <i>Nano Research</i> , 2018 , 11, 10-17	10	4
117	A sandwich-like structured superhydrophobic fabric for versatile and highly efficient emulsion separation. <i>Separation and Purification Technology</i> , 2021 , 275, 119253	8.3	4
116	Diffusion Analysis on Complex Mixtures under Adverse Magnetic Field Conditions by Spatially-Selective Pure Shift-Based DOSY. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1073-1080	6.4	4
115	Hydrogen Production: Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review (Small Methods 1/2019). <i>Small Methods</i> , 2019 , 3, 1800053	12.8	3
114	Synthesis of nano-structure tungsten nitride thin films on silicon using Mather-type plasma focus. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 557-566	0.9	3
113	Rapid and Stable Plasma Transformation of Polyester Fabrics for Highly Efficient Oil-Water Separation. <i>Global Challenges</i> , 2020 , 4, 1900095	4.3	3
112	Preparation of phase change microcapsules-aerogels composites and the enhanced thermal properties. <i>Materials Letters</i> , 2020 , 268, 127563	3.3	3
111	Combining Fourier phase encoding and broadband inversion toward J-edited spectra. <i>Journal of Magnetic Resonance</i> , 2018 , 291, 1-7	3	3

110	High Resolution P NMR Spectroscopy Generates a Quantitative Evolution Profile of Phosphorous Translocation in Germinating Sesame Seed. <i>Scientific Reports</i> , 2018 , 8, 359	4.9	3
109	Pushing resolution limits for extracting H-H scalar coupling constants by a resolution-enhanced selective refocusing method. <i>Journal of Chemical Physics</i> , 2019 , 150, 184202	3.9	3
108	Rapid and Controllable Design of Robust Superwetable Microchips by a Click Reaction for Efficient -Phthalaldehyde and Glucose Detection. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6186-6195	5.5	3
107	A simple strategy to incorporate Pt into TiO ₂ nanosponges via wet oxidation of multilayered films. <i>RSC Advances</i> , 2013 , 3, 19971	3.7	3
106	Scratch damage resistance of silica-based sol-gel coatings on polymeric substrates 2013 , 467-511		3
105	Bleeder Thickness Optimization for Controlling Resin Content in Thick Laminated Composites. <i>Advanced Materials Research</i> , 2013 , 740, 698-703	0.5	3
104	INTERFACE FRACTURE TOUGHNESS ASSESSMENT OF SOLDER JOINTS USING DOUBLE CANTILEVER BEAM TEST. <i>International Journal of Modern Physics B</i> , 2010 , 24, 164-174	1.1	3
103	The structure, stability, and reactivity of oxalato-monoperoxovanadium(V) in solution. <i>Journal of Coordination Chemistry</i> , 2010 , 63, 3268-3278	1.6	3
102	TEM Microstructural Analysis of As-bonded Copper Ball Bonds on Aluminum Metallization 2008 ,		3
101	Influence of Phosphorus Content on the Interfacial Microstructure Between Sn ₃ .5Ag Solder and Electroless Ni ₃ P Metallization on Cu Substrate. <i>IEEE Transactions on Advanced Packaging</i> , 2007 , 30, 68-72		3
100	High-Resolution Reconstruction for Diffusion-Ordered NMR Spectroscopy. <i>Analytical Chemistry</i> , 2020 , 92, 634-639	7.8	3
99	Hydrophobization of fully bio-based epoxy polymers using water as solvent: Effect of additives. <i>European Polymer Journal</i> , 2020 , 140, 110043	5.2	3
98	Localized one-dimensional single voxel magnetic resonance spectroscopy without J coupling modulations. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1661-1667	4.4	3
97	Wettability: Recent Advances in TiO ₂ -Based Nanostructured Surfaces with Controllable Wettability and Adhesion (Small 16/2016). <i>Small</i> , 2016 , 12, 2248-2248	11	3
96	Mechanistic Study of Monolayer NiP ₂ (100) toward Solar Hydrogen Production. <i>Solar Rrl</i> , 2020 , 4, 1900360		3
95	Structure and mechanical properties of HNTs/SiBCN ceramic hybrid aerogels. <i>Ceramics International</i> , 2021 , 47, 9083-9089	5.1	3
94	Modification of graphene aerogel with titania nanotubes for efficient methylene blue adsorption kinetics. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 97, 271-280	2.3	3
93	Morphology controlled carbon aerogel with enhanced thermal insulation and mechanical properties: a simple route for the regulated synthesis. <i>Journal of Non-Crystalline Solids</i> , 2021 , 564, 1208289	3.9	3

92	Insights into Improving Photoelectrochemical Water-Splitting Performance Using Hematite Anode. <i>Energy Technology</i> , 2100457	3.5	3
91	Steering Unit Cell Dipole and Internal Electric Field by Highly Dispersed Er atoms Embedded into NiO for Efficient CO ₂ Photoreduction. <i>Advanced Functional Materials</i> , 2111999	15.6	3
90	Mechanically Robust Anti-Fingerprint Coating on Polycarbonate Substrate. <i>Applied Surface Science</i> , 2022 , 153706	6.7	3
89	The disparity of corrosion resistance between Ni/Au and Ni ₃ B/Au electrical contacts in mixed flowing and salt spray tests. <i>Journal of Materials Science</i> , 2017 , 52, 9834-9849	4.3	2
88	Sorption of Eu (III) onto Nano-Sized H-Titanates of Different Structures. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 697	2.6	2
87	Effect of punching edge deformation on the magnetic properties of Fe ₄₉ -Co ₄₉ -V ₂ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 510, 166978	2.8	2
86	Fully Exploiting the Power of 2D NMR -Resolved Spectroscopy. <i>Analytical Chemistry</i> , 2020 , 92, 6893-6899	7.8	2
85	Damage advancement behavior in braided composite structures for mini aerial vehicles. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 889-900	1.8	2
84	Theoretical Insights into the Solvent Polarity Effect on the Quality of Self-Assembled N-Octadecanethiol Monolayers on Cu (111) Surfaces. <i>Molecules</i> , 2018 , 23,	4.8	2
83	Application of AlMgGaLi foil for joining copper to SiCp/Al-MMCs for high-temperature and high-power electronics. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	2
82	The prediction of elastic modulus of the mullite fiber network based on the actual structure architecture. <i>Ceramics International</i> , 2017 , 43, 16107-16113	5.1	2
81	A discrete Fourier-encoded, diagonal-free experiment to simplify homonuclear 2D NMR correlations. <i>Journal of Chemical Physics</i> , 2017 , 147, 034201	3.9	2
80	A method based on covariance and pattern recognition for improving resolutions of spatially encoded NMR spectra. <i>Magnetic Resonance in Chemistry</i> , 2015 , 53, 945-51	2.1	2
79	A novel detection scheme for high-resolution two-dimensional spin-echo correlated spectra in inhomogeneous fields. <i>PLoS ONE</i> , 2014 , 9, e84032	3.7	2
78	Development of high speed board level bend tester for drop impact applications 2009 ,		2
77	A review on the recent progress in superhydrophobic surfaces with special adhesions. <i>Scientia Sinica Chimica</i> , 2011 , 41, 609-628	1.6	2
76	P NMR studies on the ligand dissociation of trinuclear molybdenum cluster compounds. <i>Chinese Journal of Chemistry</i> , 2010 , 21, 1174-1177	4.9	2
75	Diamond nanospherulite: A novel material produced at carbon-water interface by pulsed-laser ablation. <i>Science in China Series B: Chemistry</i> , 1997 , 40, 608-615		2

74	Ferroelectric thin films with complex composition of PNNBZNBMN _{1-x} BZBT and excess NiO. <i>Journal of Materials Research</i> , 2008 , 23, 536-542	2.5	2
73	A Systematic Underfill Selection Methodology for Fine Pitch Cu/Low-k FCBGA Package 2007 ,		2
72	Analytical modeling of reservoir effect on electromigration in Cu interconnects. <i>Journal of Materials Research</i> , 2007 , 22, 152-156	2.5	2
71	Effect of Ni-P thickness on the tensile strength of Cu/electroless Ni-P/Sn-3.5Ag solder joint		2
70	Trimetallic oxide-hydroxide porous nanosheets for efficient water oxidation. <i>Chemical Engineering Journal</i> , 2022 , 435, 135019	14.7	2
69	Spatially dispersed one-dimensional carbon architecture on oxide framework for oxygen electrochemistry. <i>Chemical Engineering Journal</i> , 2021 , 133649	14.7	2
68	High Resolution Nuclear Magnetic Resonance Spectroscopy on Biological Tissue and Metabolomics. <i>Current Medicinal Chemistry</i> , 2019 , 26, 2190-2207	4.3	2
67	Preparation of superhydrophobic nanoplate iron oxide surface on a carbon steel for anti-wetting applications. <i>Materials and Design</i> , 2021 , 211, 110169	8.1	2
66	Superwetting patterned PDMS/PMMA materials by facile one-step electro-spraying for signal expression and liquid transportation. <i>Chemical Engineering Journal</i> , 2021 , 431, 133206	14.7	2
65	An environmentally friendly fluorine-free sandwich coating based on a nonwoven fabric for efficient unidirectional water transport. <i>Chemical Communications</i> , 2021 , 57, 12623-12626	5.8	2
64	Recent Advances in Synthesis, Modification, and Applications of TiO ₂ Nanotube Arrays by Electrochemical Anodization 2016 , 1379-1416		2
63	Clarifying the Correlation of Ice Adhesion Strength with Water Wettability and Surface Characteristics. <i>Langmuir</i> , 2020 , 36, 12190-12201	4	2
62	Microencapsulated phase change materials composited Al ₂ O ₃ /BiO ₂ aerogel and the thermal regulation properties. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 96, 627-635	2.3	2
61	High-Resolution Reconstruction for Multidimensional Laplace NMR. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5085-5090	6.4	2
60	Smart Drug Delivery Strategies Based on Porous Nanostructure Materials 2016 ,		2
59	Preparation of FeBTC/silica aerogels by a co-sol-gel process for organic pollutant adsorption. <i>Materials Research Express</i> , 2019 , 6, 1250g7	1.7	2
58	Heterostructured Ternary In ₂ O ₃ /Ag/TiO ₂ Nanotube Arrays for Simulated Sunlight-Driven Photoelectrocatalytic Hydrogen Generation. <i>ChemElectroChem</i> , 2021 , 8, 577-584	4.3	2
57	Visible light photodegradation of 2,4-dichlorophenol using nanostructured NaBiS: Kinetics, cytotoxicity, antimicrobial and electrochemical studies of the photocatalyst. <i>Chemosphere</i> , 2022 , 287, 132174	8.4	2

56	In Operando Neutron Scattering Multiple-Scale Studies of Lithium-Ion Batteries.. <i>Small</i> , 2022 , e2107491	11	2
55	A Mechanically Reliable Transparent Antifogging Coating on Polymeric Lenses. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101864	4.6	2
54	Hollow Microneedles on a Paper Fabricated by Standard Photolithography for the Screening Test of Prediabetes. <i>Sensors</i> , 2022 , 22, 4253	3.8	2
53	A Source of Error in Photoanode Evaluation. <i>Joule</i> , 2019 , 3, 305-310	27.8	1
52	Reference-free unwarping of single-shot spatiotemporally encoded MRI using asymmetric self-refocused echoes acquisition. <i>Journal of Magnetic Resonance</i> , 2015 , 254, 1-9	3	1
51	Improving efficiency of measuring individual H coupling networks by pure shift 2D J-resolved NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2020 , 153, 174114	3.9	1
50	Boosting resolution in NMR spectroscopy by chemical shift upscaling. <i>Analytica Chimica Acta</i> , 2020 , 1110, 109-114	6.6	1
49	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). <i>Small</i> , 2020 , 16, 2070041	11	1
48	Partial-Homogeneity-Based Two-Dimensional High-Resolution Nuclear Magnetic Resonance Spectroscopy under Inhomogeneous Magnetic Fields. <i>ChemPhysChem</i> , 2016 , 17, 1493-9	3.2	1
47	Facile synthesis of MgAl ₂ O ₄ with high crystallinity from KCl/MgCl ₂ composite molten salts. <i>Materials Research Innovations</i> , 2016 , 20, 415-420	1.9	1
46	Improved mechanical and thermomechanical properties of alumina substrate via iron doping. <i>Scripta Materialia</i> , 2013 , 68, 869-872	5.6	1
45	Effect of Titania Nano-Fillers on the Fracture Toughness and Mechanical Performance of Hybrid Sol-Gel Coatings. <i>Nanoscience and Nanotechnology Letters</i> , 2015 , 7, 226-232	0.8	1
44	Establishing resolution-improved NMR spectroscopy in high magnetic fields with unknown spatiotemporal variations. <i>Journal of Chemical Physics</i> , 2015 , 143, 244201	3.9	1
43	Hollow Nanostructures: Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes (Adv. Funct. Mater. 23/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 2902-2902	15.6	1
42	Intermolecular multiple-quantum coherence NMR signals modulated by double distant dipolar fields. <i>Molecular Physics</i> , 2008 , 106, 2381-2389	1.7	1
41	Low Temperature Direct Metal Bonding by Self Assembled Monolayers. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 990, 1		1
40	Dual-functional underliquid superhydrophobic and superoleophobic stainless steel mesh decorated with Ni ₃ S ₂ nanorods for continuous oil/water separation. <i>Surface and Coatings Technology</i> , 2022 , 434, 128177	4.4	1
39	Hexagonal WO ₃ ·0.33H ₂ O Hierarchical Microstructure with Efficient Photocatalytic Degradation Activity. <i>Catalysts</i> , 2021 , 11, 496	4	1

38	Unambiguous and accurate measurement of scalar coupling constants through a selective refocusing NMR experiment. <i>Analytica Chimica Acta</i> , 2021 , 1159, 338429	6.6	1
37	Structure engineering of Fe-based MOF aerogel by Halloysite Nanotubes for efficient methylene blue adsorption. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 99, 55	2.3	1
36	Janus Particle Preparation through UV-Induced Partial Photodegradation of Spin-Coated Particle Films. <i>Langmuir</i> , 2021 , 37, 8167-8176	4	1
35	Coupled porosity and heterojunction engineering: MOF-derived porous CoO embedded on TiO nanotube arrays for water remediation. <i>Chemosphere</i> , 2021 , 274, 129799	8.4	1
34	In situ recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2742-2748	7.8	1
33	Highly Efficient Determination of Complex NMR Multiplet Structures in Inhomogeneous Magnetic Fields. <i>Analytical Chemistry</i> , 2021 , 93, 2419-2423	7.8	1
32	Rational Design of Electrospun Nanofibers for Gas Purification: Principles, Opportunities, and Challenges. <i>Chemical Engineering Journal</i> , 2022 , 137099	14.7	1
31	Experimental and numerical investigation of process-induced deformations of glass/epoxy wind turbine blade spar cap. <i>Journal of Composite Materials</i> , 2017 , 51, 3791-3806	2.7	0
30	Influence of Hole Transport Layers/Perovskite Interfaces on the Hysteresis Behavior of Inverted Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6391-6399	6.1	0
29	Factors Affecting the Mechanical Properties of Cu/Electroless Ni-P/Sn-3.5Ag Solder Joints. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 968, 1		0
28	Electric Current Induced Brittle Failure of Eutectic Lead and Lead-free Solder Joints with Electroless Ni-P Metallization. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 968, 1		0
27	Mechanically robust multifunctional antifogging coating on transparent plastic substrates. <i>Applied Surface Science</i> , 2022 , 580, 152307	6.7	0
26	An experimental and theoretical approach to investigate correlation between electromagnetic properties of doped ferrites & its interfacial reactivity with dopamine. <i>Applied Surface Science</i> , 2020 , 506, 144945	6.7	0
25	Ag ₃ Sn Transient Liquid Phase Bonding for High Temperature Electronic Packaging: Effect of Ag Content. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020 , 10, 1604-1617	1.7	0
24	Tailoring Electronic Structure and Size of Ultrastable Metalated Metal-Organic Frameworks with Enhanced Electroconductivity for High-Performance Supercapacitors. <i>Angewandte Chemie</i> , 2021 , 133, 10316-10326	3.6	0
23	A simple data post-processing method for axial peaks free 2D PSYCHEDELIC NMR spectra. <i>Journal of Magnetic Resonance</i> , 2021 , 325, 106938	3	0
22	Silicon Anodes: Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications (Adv. Mater. 16/2021). <i>Advanced Materials</i> , 2021 , 33, 2170124	24	0
21	Multiplet analysis by strong-coupling-artifact-suppression 2D J-resolved NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2021 , 155, 034202	3.9	0

20	High-resolution 2-D NMR spectroscopy based on the Radon transform and pure shift technique for studying chemical shifts perturbations. <i>Magnetic Resonance in Chemistry</i> , 2021 , 59, 346-353	2.1	o
19	Simultaneous determination of multiple coupling networks by high-resolution 2D J-edited NMR spectroscopy. <i>Analytica Chimica Acta</i> , 2021 , 1185, 339055	6.6	o
18	Fast Acquisition of High-Quality Nuclear Magnetic Resonance Pure Shift Spectroscopy via a Deep Neural Network.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2101-2106	6.4	o
17	Design of Hierarchical Oxide-Carbon Nanostructures for Trifunctional Electrocatalytic Applications. <i>Advanced Materials Interfaces</i> , 2200071	4.6	o
16	Rational construction of superhydrophobic PDMS/PTW@cotton fabric for efficient UV/NIR light shielding. <i>Cellulose</i> , 1	5.5	o
15	A durable Ni ₃ S ₂ coated mesh with reversible transition between superhydrophobicity and underwater superoleophobicity for efficient oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107890	6.8	o
14	Recent Advances in Synthesis, Modification and Applications of TiO ₂ Nanotube Arrays by Electrochemical Anodization 2015 , 1-33		
13	Nanostructured Catalytic and Adsorbent Materials for Water Remediation 2016 , 75-111		
12	Multidimensional TiO ₂ nanostructured catalysts for sustainable H ₂ generation 2018 , 237-288		
11	Nanotube Arrays: Bioinspired Patterning with Extreme Wettability Contrast on TiO ₂ Nanotube Array Surface: A Versatile Platform for Biomedical Applications (Small 17/2013). <i>Small</i> , 2013 , 9, 3004-3004		
10	Localised two-dimensional correlated spectroscopy based on Hadamard encoding technique. <i>Molecular Physics</i> , 2014 , 112, 2602-2607	1.7	
9	Rücktitelbild: 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). <i>Angewandte Chemie</i> , 2014 , 126, 13840-13840	3.6	
8	The Root Angle in Elastoplastic Peeling Tests. <i>Key Engineering Materials</i> , 2002 , 227, 41-48	0.4	
7	High-resolution diffusion-order NMR spectroscopy in inhomogeneous magnetic fields via intermolecular zero-quantum coherences.. <i>Analytica Chimica Acta</i> , 2022 , 1197, 339508	6.6	
6	A General Reconstruction Method for Multidimensional Sparse Sampling Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10622-10630	6.4	
5	Novel encapsulation materials for High Pressure-High Temperature (HPHT) applications. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2013 , 2013, 000268-000274	0.1	
4	Silicon-Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solid Electrolyte Interface of the Compositing Electrode of Si Nanoparticles and TiO ₂ Nanotubes (Small 30/2020). <i>Small</i> , 2020 , 16, 2070169	11	
3	Optimization of twin parallel microstrips based nuclear magnetic resonance probe for measuring the kinetics in molecular assembly in ultra-small samples. <i>Review of Scientific Instruments</i> , 2021 , 92, 033107	1.7	

- 2 Effect of Laminate Cutting and Annealing Treatment on the Magnetic Properties of Fe₄₉Co₄₉V₂ Alloy. *IEEE Transactions on Magnetics*, **2021**, 57, 1-13 2
- 1 Simultaneous acquirement of pure shift 2D homonuclear correlation spectra.. *Journal of Magnetic Resonance*, **2022**, 339, 107229 3