

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5837019/c-m-l-wu-publications-by-year.pdf>

**Version:** 2024-04-25

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.

197  
papers

4,964  
citations

39  
h-index

62  
g-index

215  
ext. papers

5,668  
ext. citations

6.5  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
197	Theoretical Screening of Transition Metal-Embedded Ti <sub>2</sub> N for High-Efficiency Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 4152-4160	8.3	2
196	Enhanced Thermoelectric Performance of Bulk Bismuth Selenide: Synergistic Effect of Indium and Antimony Co-doping. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3862-3871	8.3	1
195	Thermoelectric properties of sulfide and selenide-based materials <b>2022</b> , 293-328		
194	Surface Engineering of Flower-Like Ionic Liquid-Functionalized Graphene Anchoring Palladium Nanocrystals for a Boosted Ethanol Oxidation Reaction. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 17388-17397	5.1	5
193	Rational Design and Effective Control of Gold-Based Bimetallic Electrocatalyst for Boosting CO Reduction Reaction: A First-Principles Study. <i>ChemSusChem</i> , <b>2021</b> , 14, 2731-2739	8.3	2
192	Adsorption of SF <sub>6</sub> Decomposed Species on Ti <sub>3</sub> C <sub>2</sub> O <sub>2</sub> and Ti <sub>3</sub> C <sub>2</sub> F <sub>2</sub> with Point Defects by DFT Study. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2100074	3.5	1
191	Strain-controlled DHP-graphene for ultrahigh-performance hydrogen purification. <i>Applied Surface Science</i> , <b>2021</b> , 553, 149575	6.7	1
190	Ultralow Thermal Conductivity in Dual-Doped n-Type Bi <sub>2</sub> Te <sub>3</sub> Material for Enhanced Thermoelectric Properties. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000910	6.4	4
189	Determination of glioma cells malignancy and their response to TMZ via detecting exosomal BIGH3 by a TiO <sub>2</sub> -CTFE-AuNIs plasmonic biosensor. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 128948	14.7	8
188	In vivo liquid biopsy for glioblastoma malignancy by the AFM and LSPR based sensing of exosomal CD44 and CD133 in a mouse model. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 191, 113476	11.8	13
187	Multi-objective optimization of alkali/alkaline earth metals doped graphyne for ultrahigh-performance CO <sub>2</sub> capture and separation over N <sub>2</sub> /CH <sub>4</sub> . <i>Materials Today Physics</i> , <b>2021</b> , 21, 100539	8.3	1
186	Can charge-modulated metal-organic frameworks achieve high-performance CO <sub>2</sub> capture and separation over H <sub>2</sub> , N <sub>2</sub> and CH <sub>4</sub> ?. <i>ChemSusChem</i> , <b>2021</b> ,	8.3	2
185	Nanostructured titanium nitride for highly sensitive localized surface plasmon resonance biosensing. <i>Ceramics International</i> , <b>2020</b> , 46, 20993-20999	5.1	9
184	Label-free sensing of exosomal MCT1 and CD147 for tracking metabolic reprogramming and malignant progression in glioma. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6119	14.3	37
183	Metal-free two-dimensional phosphorus carbide as an efficient electrocatalyst for hydrogen evolution reaction comparable to platinum. <i>Nano Energy</i> , <b>2020</b> , 71, 104603	17.1	22
182	Fracture analysis of a welded front axle tube structure from a mini-truck. <i>Journal of Mechanical Science and Technology</i> , <b>2020</b> , 34, 109-116	1.6	6
181	Theoretical investigation on the hydrogen evolution reaction mechanism at MoS <sub>2</sub> heterostructures: the essential role of the 1T/2H phase interface. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 458-465	5.5	13

180	Effects of cooling rate and joint size on Sn grain features in Cu/Sn <sub>3</sub> Ag/Cu solder joints. <i>Materialia</i> , <b>2020</b> , 14, 100929	3.2	1
179	Single transition metal atoms on nitrogen-doped carbon for CO <sub>2</sub> electrocatalytic reduction: CO production or further CO reduction?. <i>Applied Surface Science</i> , <b>2020</b> , 533, 147466	6.7	21
178	Activity origin and design principles for atomic vanadium anchoring on phosphorene monolayer for nitrogen reduction reaction. <i>Nano Research</i> , <b>2020</b> , 13, 2925-2932	10	18
177	Preparation and photoelectrochemical properties of BiFeO <sub>3</sub> /BiOI composites.. <i>RSC Advances</i> , <b>2020</b> , 10, 26658-26663	3.7	2
176	Morphology and strain control of hierarchical cobalt oxide nanowire electrocatalysts via solvent effect. <i>Nano Research</i> , <b>2020</b> , 13, 3130-3136	10	7
175	Stress Corrosion Cracking of an Electrohydraulic Oil Pipe. <i>Journal of Failure Analysis and Prevention</i> , <b>2019</b> , 19, 29-35	0.9	0
174	One-Step Synthesis of Mixed Lanthanide Metal-Organic Framework Films for Sensitive Temperature Mapping. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900336	8.1	40
173	Adsorption of formaldehyde on transition metal doped monolayer MoS <sub>2</sub> : A DFT study. <i>Applied Surface Science</i> , <b>2019</b> , 484, 1244-1252	6.7	38
172	Electrochemical CO Reduction to C Products on Single Nickel/Cobalt/Iron-Doped Graphitic Carbon Nitride: A DFT Study. <i>ChemSusChem</i> , <b>2019</b> , 12, 5126-5132	8.3	35
171	Sensors/Biosensors: Detection of Glioma-Derived Exosomes with the Biotinylated Antibody-Functionalized Titanium Nitride Plasmonic Biosensor (Adv. Funct. Mater. 9/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970056	15.6	
170	Simultaneous Enhancement of Thermopower and Electrical Conductivity through Isovalent Substitution of Cerium in Bismuth Selenide Thermoelectric Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44026-44035	9.5	6
169	Detection of Glioma-Derived Exosomes with the Biotinylated Antibody-Functionalized Titanium Nitride Plasmonic Biosensor. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806761	15.6	54
168	Impact of diverse active sites on MoS <sub>2</sub> catalyst: Competition on active site formation and selectivity of thiophene hydrodesulfurization reaction. <i>Molecular Catalysis</i> , <b>2019</b> , 463, 67-76	3.3	7
167	Label-free surface plasmon resonance biosensing with titanium nitride thin film. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 106, 129-135	11.8	12
166	Enhanced Hydrogen Purification in Nanoporous Phosphorene Membrane with Applied Electric Field. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3497-3505	3.8	16
165	Bimetallic Au-Ag alloy nanoislands for highly sensitive localized surface plasmon resonance biosensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 265, 459-467	8.5	42
164	Effects of mechanical strain on the performance of germanene sheets: Strength, failure behavior, and electronic structure. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 113, 201-209	3.9	7
163	Encapsulating Co P@C Core-Shell Nanoparticles in a Porous Carbon Sandwich as Dual-Doped Electrocatalyst for Hydrogen Evolution. <i>ChemSusChem</i> , <b>2018</b> , 11, 376-388	8.3	40

162	Chlorinated paraffins wrapping of carbon nanotubes: A theoretical investigation. <i>Applied Surface Science</i> , <b>2018</b> , 436, 277-282	6.7	2
161	Investigation on mechanical performances of grain boundaries in hexagonal boron nitride sheets. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 149, 262-272	5.5	12
160	Label-free detection of 3-nitro-L-tyrosine with nickel-doped graphene localized surface plasmon resonance biosensor. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 468-476	11.8	35
159	Label-Free LSPR Detection of Trace Lead(II) Ions in Drinking Water by Synthetic Poly(mPD-co-ASA) Nanoparticles on Gold Nanoislands. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1985-1993	7.8	17
158	Defect-sensitive performance of silicene sheets under uniaxial tension: mechanical properties, electronic structures and failure behavior. <i>RSC Advances</i> , <b>2017</b> , 7, 10306-10315	3.7	14
157	Adsorption of gas molecules on Ga-doped graphene and effect of applied electric field: A DFT study. <i>Applied Surface Science</i> , <b>2017</b> , 411, 11-17	6.7	94
156	Direct detection of two different tumor-derived extracellular vesicles by SAM-AuNIs LSPR biosensor. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 94, 400-407	11.8	100
155	Mechanical properties and failure behavior of hexagonal boron nitride sheets with nano-cracks. <i>Computational Materials Science</i> , <b>2017</b> , 140, 356-366	3.2	25
154	Initial Reduction of CO on Pd-, Ru-, and Cu-Doped CeO(111) Surfaces: Effects of Surface Modification on Catalytic Activity and Selectivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26107-26117	9.5	49
153	A redox-controlled electrolyte for plasmonic enhanced dye-sensitized solar cells. <i>Nanoscale</i> , <b>2017</b> , 9, 10940-10947	7.7	3
152	Mechanism of Dynamic Recrystallization and Evolution of Texture in the Hot Working Domains of the Processing Map for Mg-4Al-2Ba-2Ca Alloy. <i>Metals</i> , <b>2017</b> , 7, 539	2.3	5
151	Facile fabrication and application of SnO <sub>2</sub> /ZnO nanocomposites: insight into chain-like frameworks, heterojunctions and quantum dots. <i>RSC Advances</i> , <b>2016</b> , 6, 82096-82102	3.7	13
150	Facile synthesis of hierarchical MnO superstructures and efficient catalytic performance. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 26602-26608	3.6	6
149	First-principles insight into the photoelectronic properties of Ge-based perovskites. <i>RSC Advances</i> , <b>2016</b> , 6, 86976-86981	3.7	36
148	Failure analysis of tube-to-tubesheet welded joints in a shell-tube heat exchanger. <i>Case Studies in Engineering Failure Analysis</i> , <b>2016</b> , 7, 32-40		26
147	Effect of alloying on the stabilities and catalytic properties of Ag <sub>2</sub> Au bimetallic subnanoclusters: a theoretical investigation. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 5046-5060	4.3	15
146	Tensile creep behavior of Sn <sub>3</sub> Ag <sub>2</sub> CuNi multicomponent lead-free solder alloy. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 6630-6636	2.1	2
145	Methanol oxidation on Ru(0001) for direct methanol fuel cells: analysis of the competitive reaction mechanism. <i>RSC Advances</i> , <b>2016</b> , 6, 1729-1737	3.7	13

144	Mechanical properties and failure behaviors of the interface of hybrid graphene/hexagonal boron nitride sheets. <i>Scientific Reports</i> , <b>2016</b> , 6, 31499	4.9	34
143	Effect of alloying on the stabilities and catalytic properties of PtAu bimetallic subnanoclusters: a theoretical investigation. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	4
142	Liquid metal induced embrittlement of a nitrated clutch shell of a motorbike. <i>Engineering Failure Analysis</i> , <b>2016</b> , 61, 54-61	3.2	6
141	Methanol Oxidation on Pt <sub>3</sub> Sn(111) for Direct Methanol Fuel Cells: Methanol Decomposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 12194-204	9.5	47
140	Dielectric functionalization for differential phase detecting localized surface plasmon resonance biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 234, 247-254	8.5	17
139	Structures and electronic properties of vacancies at the interface of hybrid graphene/hexagonal boron nitride sheet. <i>Computational Materials Science</i> , <b>2016</b> , 117, 172-179	3.2	18
138	Effects of subnanometer silver clusters on the AgBr(110) photocatalyst surface: a theoretical investigation. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 4821-4829	5.5	5
137	Hydrodenitrogenation of pyridine on MoP(010): Competition between hydrogenation and denitrification. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 435, 30-37	2.7	9
136	CO tolerance of a Pt <sub>3</sub> Sn(111) catalyst in ethanol decomposition. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 3246-3258	5.5	17
135	Fracture Failure of 304 Stainless Steel Connectors on the Isolating Switches. <i>Journal of Failure Analysis and Prevention</i> , <b>2015</b> , 15, 364-369	0.9	1
134	Formation of orthorhombic SnO <sub>2</sub> originated from lattice distortion by Mn-doped tetragonal SnO <sub>2</sub> . <i>RSC Advances</i> , <b>2015</b> , 5, 39285-39290	3.7	21
133	Differential phase-detecting localized surface plasmon resonance sensor with self-assembly gold nano-islands. <i>Optics Letters</i> , <b>2015</b> , 40, 1924-7	3	18
132	Irradiated Graphene Loaded with SnO <sub>2</sub> Quantum Dots for Energy Storage. <i>ACS Nano</i> , <b>2015</b> , 9, 11351-61	16.7	63
131	Insights from investigations of tin dioxide and its composites: electron-beam irradiation, fractal assessment, and mechanism. <i>Nanoscale</i> , <b>2015</b> , 7, 15532-52	7.7	6
130	Multifunctional tin dioxide materials: advances in preparation strategies, microstructure, and performance. <i>Chemical Communications</i> , <b>2015</b> , 51, 1175-84	5.8	4
129	An analysis of crack evolution of a 12Cr13 stainless steel during forging process. <i>Case Studies in Engineering Failure Analysis</i> , <b>2015</b> , 4, 94-99		
128	Fracture Failure of Zinc-Plated Hub Bolts by Hydrogen Embrittlement. <i>Journal of Failure Analysis and Prevention</i> , <b>2015</b> , 15, 464-469	0.9	1
127	Fe-species-loaded mesoporous MnO <sub>2</sub> superstructural requirements for enhanced catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3949-59	9.5	53

126	Biosensing with gain-assisted surface plasmon-polariton amplifier: A computational investigation. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 210, 36-45	8.5	10
125	An aptasensor using DNA aptamer and white light common-path SPR spectral interferometry to detect cytochrome-c for anti-cancer drug screening. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 198, 416-423	8.5	50
124	Plasmonic enhanced dye-sensitized solar cells with self-assembly gold-TiO <sub>2</sub> @core-shell nanoislands. <i>Solar Energy</i> , <b>2014</b> , 99, 115-125	6.8	35
123	Ultrathin-shell boron nitride hollow spheres as sorbent for dispersive solid-phase extraction of polychlorinated biphenyls from environmental water samples. <i>Journal of Chromatography A</i> , <b>2014</b> , 1369, 181-5	4.5	15
122	The effect of grain boundaries on the mechanical properties and failure behavior of hexagonal boron nitride sheets. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 23716-22	3.6	51
121	Interactions between polybrominated diphenyl ethers and graphene surface: a DFT and MD investigation. <i>Environmental Science: Nano</i> , <b>2014</b> , 1, 55-63	7.1	25
120	Hierarchical mesoporous MnO <sub>2</sub> superstructures synthesized by soft-interface method and their catalytic performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9776-84	9.5	62
119	Effects of atomic Ag on AgBr photocatalyst surfaces: a theoretical survey. <i>RSC Advances</i> , <b>2014</b> , 4, 33134-33143	3.7	143
118	Boron nitride nanotubes as novel sorbent for solid-phase microextraction of polycyclic aromatic hydrocarbons in environmental water samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 5751-4	4.4	13
117	Annealing-dependent growth and nonlinear electrical properties of fractal Ge nanojoints based on Pd matrix. <i>Materials Letters</i> , <b>2014</b> , 115, 29-33	3.3	1
116	Heterojunctions and optical properties of ZnO/SnO <sub>2</sub> nanocomposites adorned with quantum dots. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 128, 254-259	6.4	27
115	Recent advances in tin dioxide materials: some developments in thin films, nanowires, and nanorods. <i>Chemical Reviews</i> , <b>2014</b> , 114, 7442-86	68.1	128
114	Fractal Germanium Patterns: Annealing Strategies and Perspectives of Metal-Induced Crystallization. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2014</b> , 39, 368-390	10.1	0
113	Characterization strategies for Mn <sub>2</sub> O <sub>3</sub> nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 1693-709	1.3	5
112	Advances in fractal germanium micro/nanoclusters induced by gold: microstructures and properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 1318-37	1.3	2
111	Theoretical Insight into Organic Dyes Incorporating Triphenylamine-Based Donors and Binary-Conjugated Bridges for Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-9	2.1	2
110	Recent research situation in tin dioxide nanomaterials: synthesis, microstructures, and properties. <i>Frontiers of Materials Science</i> , <b>2013</b> , 7, 203-226	2.5	11
109	Theoretical insight into the spectral characteristics of Fe(II)-based complexes for dye-sensitized solar cells: Functionalized bipyridyl chromophores. <i>Journal of Organometallic Chemistry</i> , <b>2013</b> , 741-742, 168-175	2.3	5

108	Assembling tin dioxide quantum dots to graphene nanosheets by a facile ultrasonic route. <i>Langmuir</i> , <b>2013</b> , 29, 4111-8	4	47
107	Adsorption of nucleobase pairs on hexagonal boron nitride sheet: hydrogen bonding versus stacking. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10767-76	3.6	48
106	Mechanistic Insight into Catalytic Oxidation of Ammonia on Clean, O- and OH-Assisted Ir(1 1 1) Surfaces. <i>ChemCatChem</i> , <b>2013</b> , 5, 1832-1841	5.2	10
105	Formation and Third-Order Optical Nonlinearities of Fractal Ge Nanocrystals Embedded in Au Matrix. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 8903-8908	3.8	2
104	Self-assembly Gold Nanoislands for Localized Surface Plasmon Resonance Biosensing. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1566, 1		
103	Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 4364-4377	1.6	14
102	Common-path spectral interferometry with temporal carrier for highly sensitive surface plasmon resonance sensing. <i>Optics Express</i> , <b>2013</b> , 21, 20268-73	3.3	29
101	Recent advances in manganese oxide nanocrystals: fabrication, characterization, and microstructure. <i>Chemical Reviews</i> , <b>2012</b> , 112, 3833-55	68.1	188
100	A Review on Protection of Concrete for Sewage Installations and an Accelerated Test on Protection Systems. <i>HKIE Transactions</i> , <b>2012</b> , 19, 8-16	2.9	6
99	Morphologies and Nonlinear Optical Properties of Fractal Ge Nanocrystals Embedded in Pd Matrix. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21012-21017	3.8	4
98	Nitrated tyrosine adsorption on metal-doped graphene: A DFT study. <i>Computational Materials Science</i> , <b>2012</b> , 51, 141-145	3.2	40
97	Microstructure evolution and advanced performance of Mn <sub>3</sub> O <sub>4</sub> nanomorphologies. <i>Nanoscale</i> , <b>2012</b> , 4, 2590-6	7.7	39
96	Al-induced crystallization of amorphous Ge and formation of fractal Ge micro-/nanoclusters. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8473-8	5.1	21
95	Computational Investigation on the Effect of Graphene Oxide Sheets as Nanofillers in Poly(vinyl alcohol)/Graphene Oxide Composites. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22532-22538	3.8	28
94	Simple near-infrared photodetector based on charge transfer complexes formed in molybdenum oxide doped N,N'-di(naphthalene-1-yl)-N,N'-diphenyl-benzidine. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2012</b> , 6, 129-131	2.5	14
93	Preparation methodologies and nano/microstructural evaluation of metal/semiconductor thin films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 26-59	1.3	4
92	Electron-Beam Irradiation Strategies for Growth Behavior of Tin Dioxide Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20523-20528	3.8	9
91	Can Polypyridyl Cu(I)-based Complexes Provide Promising Sensitizers for Dye-Sensitized Solar Cells? A Theoretical Insight into Cu(I) versus Ru(II) Sensitizers. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3753-3761	3.8	62

90	White-light spectral interferometry for surface plasmon resonance sensing applications. <i>Optics Express</i> , <b>2011</b> , 19, 4521-7	3.3	54
89	Dependence of electrical properties on thermal temperature in nanocrystalline SnO <sub>2</sub> thin films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 10659-63	1.3	1
88	Temperature-induced assembly of semiconductor nanocrystals into fractal architectures and thermoelectric power properties in Au/Ge bilayer films. <i>Chaos, Solitons and Fractals</i> , <b>2011</b> , 44, 640-646	9.3	2
87	Microstructural evolution of oxides and semiconductor thin films. <i>Progress in Materials Science</i> , <b>2011</b> , 56, 901-1029	42.2	56
86	Polycondensation-type Ge nanofractal assembly. <i>Materials Today</i> , <b>2011</b> , 14, 106-113	21.8	9
85	Controllable Growth and Unexpected Effects of Ge Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9871-9878	3.8	7
84	Probing into interesting effects of fractal Ge nanoclusters induced by Pd nanoparticles. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 6756-61	5.1	8
83	Theoretical characterization of ruthenium complexes containing functionalized bithiophene ligands for dye-sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , <b>2011</b> , 696, 1632-1639	2.3	9
82	Surface plasmon resonance biosensing via differential spectral phase interferometry <b>2011</b> ,		2
81	Microstructural and photoluminescence properties of tin dioxide modified by electron beam irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 9709-13	1.3	2
80	Theoretical Insight into the Spectral Characteristics of Fe(II)-Based Complexes for Dye-Sensitized Solar Cells Part I: Polypyridyl Ancillary Ligands. <i>International Journal of Photoenergy</i> , <b>2011</b> , 2011, 1-11	2.1	3
79	Synthesis of Hierarchical Porous ZnO Disklike Nanostructures for Improved Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13157-13161	3.8	50
78	High-Performance CdSe:In Nanowire Field-Effect Transistors Based on Top-Gate Configuration with High- $\kappa$ Non-Oxide Dielectrics. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4663-4668	3.8	19
77	Insight on fractal assessment strategies for tin dioxide thin films. <i>ACS Nano</i> , <b>2010</b> , 4, 1202-8	16.7	53
76	Mechanistic insight into the gas-phase reactions of methylamine with ground state Co <sup>+</sup> ( <sup>3</sup> F) and Ni <sup>+</sup> ( <sup>2</sup> D). <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 12490-7	2.8	4
75	The adsorption of Ag <sub>3</sub> Sn nano-particles on Cu <sub>3</sub> Sn intermetallic compounds of Sn <sub>3</sub> Ag <sub>0.5</sub> Cu/Cu during soldering. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 492, 433-438	5.7	58
74	DFT/TD-DFT investigation of electronic structures and spectra properties of Cu-based dye sensitizers. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 1178-84	2.8	34
73	Effect of Y <sub>2</sub> O <sub>3</sub> particles on microstructure formation and shear properties of Sn-58Bi solder. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2010</b> , 21, 1046-1054	2.1	36

72	Differential spectral phase interferometry for wide dynamic range surface plasmon resonance biosensing. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1593-8	11.8	33
71	Silicon nanowire sensors for Hg <sup>2+</sup> and Cd <sup>2+</sup> ions. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 193101	3.4	74
70	Bulk-quantity synthesis and electrical properties of SnO <sub>2</sub> nanowires prepared by pulsed delivery. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 115, 660-663	4.4	8
69	Review and comparison of shearography and active thermography for nondestructive evaluation. <i>Materials Science and Engineering Reports</i> , <b>2009</b> , 64, 73-112	30.9	151
68	Graphene sheets via microwave chemical vapor deposition. <i>Chemical Physics Letters</i> , <b>2009</b> , 467, 361-364	2.5	114
67	Exploring the microstructural and electrical properties of SnO <sub>2</sub> nanorods prepared by a widely applicable route. <i>Acta Materialia</i> , <b>2009</b> , 57, 4632-4637	8.4	9
66	Defect evolution of nanocrystalline SnO <sub>2</sub> thin films induced by pulsed delivery during in situ annealing. <i>Acta Materialia</i> , <b>2009</b> , 57, 5078-5082	8.4	9
65	N-P transition sensing behaviors of ZnO nanotubes exposed to NO <sub>2</sub> gas. <i>Nanotechnology</i> , <b>2009</b> , 20, 465501	5.4	104
64	Insights into effects of annealing on microstructure from SnO <sub>2</sub> thin films prepared by pulsed delivery. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 2647-2652	3.9	3
63	Liquid-state interfacial reactions between Sn-Ag-Cu-Fe composite solders and Cu substrate <b>2009</b> ,		4
62	A white-light interferometric surface plasmon resonance sensor with wide dynamic range and phase-sensitive response <b>2008</b> ,		8
61	Pulsed Laser Ablation for Tin Dioxide: Nucleation, Growth, and Microstructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2008</b> , 33, 197-209	10.1	17
60	On the tearing fracture of polycarbonate films. <i>Polymer Testing</i> , <b>2007</b> , 26, 102-107	4.5	4
59	Compression Creep Behavior of High Volume Fraction of SiC Particles Reinforced Al Composite Fabricated by Pressureless Infiltration. <i>Chinese Journal of Aeronautics</i> , <b>2007</b> , 20, 115-119	3.7	9
58	Synthesis of an Al <sub>2</sub> O <sub>3</sub> /Al co-continuous composite by reactive melt infiltration. <i>Materials Characterization</i> , <b>2007</b> , 58, 416-422	3.9	33
57	Direct robust bonding between Sn-based solder and Si substrate. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 1057-1063	2.1	4
56	A Simple and Effective Route to Annihilate Defects in Nanocrystalline SnO <sub>2</sub> Thin Films Prepared by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1026, 1		
55	Microstructure, solderability, and growth of intermetallic compounds of Sn-Ag-Cu-RE lead-free solder alloys. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 89-93	1.9	79

54	Thermal fatigue behaviour of SiCp/Al composite synthesized by metal infiltration. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 1858-1862	8.4	17
53	Rare-earth additions to lead-free electronic solders. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2006</b> , 18, 77-91	2.1	38
52	Rare-earth additions to lead-free electronic solders <b>2006</b> , 77-91		4
51	The formation of nano-Ag <sub>3</sub> Sn particles on the intermetallic compounds during wetting reaction. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 389, 153-158	5.7	61
50	Intermetallic compounds growth between Sn <sub>3</sub> .5Ag lead-free solder and Cu substrate by dipping method. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 392, 192-199	5.7	86
49	Microstructural evolution of lead-free Sn-Bi-Ag-Cu SMT joints during aging. <i>IEEE Transactions on Advanced Packaging</i> , <b>2005</b> , 28, 128-133		14
48	Creep resistance of tin-based lead-free solder alloys. <i>Journal of Electronic Materials</i> , <b>2005</b> , 34, 1373-1377	1.9	19
47	Interfacial microstructure and strength of lead-free Sn-Zn-RE BGA solder bumps. <i>IEEE Transactions on Advanced Packaging</i> , <b>2005</b> , 28, 252-258		17
46	Effects of Cu contents in Sn-Cu solder on the composition and morphology of intermetallic compounds at a solder/Ni interface. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2205-2212	2.5	34
45	Properties of lead-free solder alloys with rare earth element additions. <i>Materials Science and Engineering Reports</i> , <b>2004</b> , 44, 1-44	30.9	444
44	Impact Resistance of SM Joints Formed With ICA. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2003</b> , 125, 93-97	2	6
43	The wettability and microstructure of Sn-Zn-RE alloys. <i>Journal of Electronic Materials</i> , <b>2003</b> , 32, 63-69	1.9	93
42	Aging Characteristics of ICA for SMD on Flex. <i>Materials Science Forum</i> , <b>2003</b> , 437-438, 181-184	0.4	
41	High Energy Impact Resistance of Sb-Sn Lead-Free SMT Joint. <i>Materials Science Forum</i> , <b>2003</b> , 437-438, 117-120	0.4	
40	Impact Resistance of SM Joints Formed With ICA. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2002</b> , 124, 374-378	2	3
39	Morphological Study of Sisal Fibres. <i>Advanced Composites Letters</i> , <b>2002</b> , 11, 096369350201100	1.2	10
38	Creep behavior of eutectic Sn-Cu lead-free solder alloy. <i>Journal of Electronic Materials</i> , <b>2002</b> , 31, 442-448	1.9	57
37	The properties of Sn-9Zn lead-free solder alloys doped with trace rare earth elements. <i>Journal of Electronic Materials</i> , <b>2002</b> , 31, 921-927	1.9	103

36	Microstructure and mechanical properties of new lead-free Sn-Cu-RE solder alloys. <i>Journal of Electronic Materials</i> , <b>2002</b> , 31, 928-932	1.9	75
35	Application of passive quadrature phase demodulation for the detection of laser ultrasound. <i>Optics and Lasers in Engineering</i> , <b>2002</b> , 38, 549-556	4.6	2
34	Improvements of microstructure, wettability, tensile and creep strength of eutectic SnAg alloy by doping with rare-earth elements. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 3146-3154	2.5	50
33	Creep behavior of eutectic SnAg lead-free solder alloy. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 2897-2903	2.5	81
32	Degradation of flip-chip-on-glass interconnection with ACF under high humidity and thermal aging. <i>Soldering and Surface Mount Technology</i> , <b>2002</b> , 14, 51-58	1.4	9
31	The effects of bump height on the reliability of ACF in flip-chip. <i>Soldering and Surface Mount Technology</i> , <b>2001</b> , 13, 25-30	1.4	29
30	Durability of concrete with high cement replacement. <i>Cement and Concrete Research</i> , <b>2000</b> , 30, 865-879	10.3	40
29	Effect of irradiation on the short beam shear behavior of pultruded sisal-fiber/glass-fiber/polyester hybrid composites. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 1155-1157		10
28	Lead free solder alloys Sn-Zn and Sn-Sb prepared by mechanical alloying. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2000</b> , 11, 57-65	2.1	29
27	Passive phase demodulation and laser-noise compensation scheme for fibre interferometers. <i>Electronics Letters</i> , <b>2000</b> , 36, 1362	1.1	4
26	Developing a lead-free solder alloy Sn-Bi-Ag-Cu by mechanical alloying. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 1015-1020	1.9	39
25	Microstructural evolution of a lead-free solder alloy Sn-Bi-Ag-Cu prepared by mechanical alloying during thermal shock and aging. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 1021-1026	1.9	24
24	Residual shear strength of Sn-Ag and Sn-Bi lead-free SMT joints after thermal shock. <i>IEEE Transactions on Advanced Packaging</i> , <b>2000</b> , 23, 708-714		34
23	Stiffness behaviour of injection moulded short glass fibre/impact modifier/polypropylene hybrid composites. <i>Journal of Materials Processing Technology</i> , <b>1999</b> , 96, 48-52	5.3	11
22	Tensile Failure Mechanisms of Sisal Fibers in Composites. <i>Journal of Materials Science Letters</i> , <b>1998</b> , 17, 1805-1807		31
21	Thermal-mechanical interface crack behaviour of a surface mount solder joint. <i>Finite Elements in Analysis and Design</i> , <b>1998</b> , 30, 19-30	2.2	7
20	Injection moulding of SiCw/Al <sub>2</sub> O <sub>3</sub> composites. <i>Journal of Materials Processing Technology</i> , <b>1997</b> , 63, 399-404	5.9	1
19	Thermogravimetric and binder removal analysis of injection moulded reinforced ceramic composite. <i>Composite Structures</i> , <b>1997</b> , 38, 483-487	5.3	3

18	Effect of cracks on thermal stress and strain of a tape automated bonded package. <i>Composite Structures</i> , <b>1997</b> , 38, 525-530	5.3	3
17	Thermal and mechanical fatigue analysis of CFRP laminates. <i>Composite Structures</i> , <b>1993</b> , 25, 339-344	5.3	16
16	Nonlinear thermal and mechanical analysis of step-tapered laminated plate under uniform in-plane load. <i>Composite Structures</i> , <b>1992</b> , 22, 33-45	5.3	0
15	Bolted joints in a laminated composite strut design expert system. <i>Composite Structures</i> , <b>1992</b> , 22, 63-85	5.3	10
14	Elasto-plastic analysis of edge effects in metal matrix angle-ply laminates. <i>Computers and Structures</i> , <b>1992</b> , 45, 273-280	4.5	4
13	MINIMUM WEIGHT OPTIMIZATION OF COMPOSITE LAMINATED STRUTS. <i>Engineering Optimization</i> , <b>1991</b> , 17, 21-63	2	4
12	Nonlinear Thermal and Mechanical Analysis of Edge Effects in [ + $\theta$ ] <sub>s</sub> Laminates <b>1991</b> , 433-443		
11	Nonlinear thermal and mechanical analysis of edge effects in angle-ply laminates. <i>Computers and Structures</i> , <b>1990</b> , 35, 705-717	4.5	14
10	Nonlinear analysis of edge effects in angle-ply laminates. <i>Computers and Structures</i> , <b>1987</b> , 25, 787-798	4.5	20
9	Non-linear analysis of tapered (in steps) laminated plate under uniform inplane load. <i>Composite Structures</i> , <b>1987</b> , 7, 205-223	5.3	5
8	Analysis of tapered (in steps) laminated plates under uniform inplane load. <i>Composite Structures</i> , <b>1986</b> , 5, 87-100	5.3	10
7	Microstructure evolution and shear strength of eutectic Sn-9Zn and Sn-0.7Cu lead-free BGA solder balls		1
6	Microstructure evolution and shear strength of Sn-3.5Ag-RE lead-free BGA solder balls		7
5	A promising lead-free material for flip-chip bumps: Sn-Cu-RE		1
4	Degradation mechanisms of anisotropic conductive adhesive joints for flip chip on flex applications		20
3	Reliability of ACF in flip-chip with various bump heights		6
2	Thermal cycling analysis of TAB OLB connection with ACF		3
1	Self-Assembly Silver Nanoparticles Decorated on Gold Nanoislands for Label-Free Localized Surface Plasmon Resonance Biosensing. <i>Advanced Materials Interfaces</i> , 2200339	4.6	0

