

Alfred Iing Yoong Tok

List of Publications by Citations

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170
papers

6,157
citations

35
h-index

74
g-index

178
ext. papers

6,835
ext. citations

6
avg, IF

5.78
L-index

#	Paper	IF	Citations
170	Fabrication of single- and multilayer MoS ₂ film-based field-effect transistors for sensing NO at room temperature. <i>Small</i> , 2012 , 8, 63-7	11	1213
169	Lanthanide-doped Na(x)ScF(3+x) nanocrystals: crystal structure evolution and multicolor tuning. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8340-3	16.4	286
168	Quantum-dot-sensitized TiO ₂ inverse opals for photoelectrochemical hydrogen generation. <i>Small</i> , 2012 , 8, 37-42	11	196
167	Hydrothermal synthesis of CeO ₂ nano-particles. <i>Journal of Materials Processing Technology</i> , 2007 , 190, 217-222	5.3	190
166	Surface modification of ZnO nanocrystals. <i>Applied Surface Science</i> , 2007 , 253, 5473-5479	6.7	176
165	Nanostructured metallic transition metal carbides, nitrides, phosphides, and borides for energy storage and conversion. <i>Nano Today</i> , 2019 , 25, 99-121	17.9	173
164	Biocompatible Hydroxylated Boron Nitride Nanosheets/Poly(vinyl alcohol) Interpenetrating Hydrogels with Enhanced Mechanical and Thermal Responses. <i>ACS Nano</i> , 2017 , 11, 3742-3751	16.7	136
163	Photon upconversion in hetero-nanostructured photoanodes for enhanced near-infrared light harvesting. <i>Advanced Materials</i> , 2013 , 25, 1603-7	24	119
162	Carbonate Co-precipitation of Gd ₂ O ₃ -doped CeO ₂ solid solution nano-particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 383, 229-234	5.3	119
161	Kinetically controlling phase transformations of crystalline mercury selenidostannates through surfactant media. <i>Inorganic Chemistry</i> , 2013 , 52, 4148-50	5.1	115
160	Novel synthesis of Al ₂ O ₃ nano-particles by flame spray pyrolysis. <i>Journal of Materials Processing Technology</i> , 2006 , 178, 270-273	5.3	113
159	Two-Dimensional SiO ₂ /VO Photonic Crystals with Statically Visible and Dynamically Infrared Modulated for Smart Window Deployment. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33112-33120	8.5	111
158	A review on technological aspects influencing commercialization of carbon nanotube sensors. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 1-7	8.5	111
157	Surface modifications of ZnO quantum dots for bio-imaging. <i>Nanotechnology</i> , 2007 , 18, 215604	3.4	111
156	TiO ₂ inverse-opal electrode fabricated by atomic layer deposition for dye-sensitized solar cell applications. <i>Energy and Environmental Science</i> , 2011 , 4, 209-215	35.4	110
155	Hydrothermal synthesis and characterization of rare earth doped ceria nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 466, 223-229	5.3	94
154	A novel photoanode with three-dimensionally, hierarchically ordered nanobushes for highly efficient photoelectrochemical cells. <i>Advanced Materials</i> , 2012 , 24, 4157-62	24	89

153	Ceramic tape casting: A review of current methods and trends with emphasis on rheological behaviour and flow analysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 212, 39-61	3.1	88
152	Homogeneous photosensitization of complex TiO ₂ nanostructures for efficient solar energy conversion. <i>Scientific Reports</i> , 2012 , 2, 451	4.9	76
151	Applications of atomic layer deposition in solar cells. <i>Nanotechnology</i> , 2015 , 26, 064001	3.4	73
150	Fabrication and performance of gadolinia-doped ceria-based intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008 , 178, 69-74	8.9	72
149	La(Ni,Fe)O ₃ as a cathode material with high tolerance to chromium poisoning for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007 , 170, 61-66	8.9	71
148	GDC-impregnated Ni anodes for direct utilization of methane in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2006 , 159, 68-72	8.9	66
147	Atomic layer deposition for nanofabrication and interface engineering. <i>Nanoscale</i> , 2012 , 4, 1522-8	7.7	65
146	3-Dimensional photonic crystal surface enhanced upconversion emission for improved near-infrared photoresponse. <i>Nanoscale</i> , 2014 , 6, 817-24	7.7	62
145	Characterization of nano-crystalline ZrO ₂ synthesized via reactive plasma processing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 894-899	3.1	62
144	Selective sensing of hydrogen sulphide using silver nanoparticle decorated carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2009 , 138, 189-192	8.5	60
143	Two-dimensional SnS nanoflakes: synthesis and application to acetone and alcohol sensors. <i>RSC Advances</i> , 2017 , 7, 21556-21566	3.7	56
142	Inverse opals coupled with nanowires as photoelectrochemical anode. <i>Nano Energy</i> , 2012 , 1, 322-327	17.1	48
141	Flame spray synthesis of ZrO ₂ nano-particles using liquid precursors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 130, 114-119	3.1	44
140	Nitrogen-doped carbon nanotube-based bilayer thin film as transparent counter electrode for dye-sensitized solar cells (DSSCs). <i>Chemistry - an Asian Journal</i> , 2012 , 7, 541-5	4.5	40
139	Surfactant-thermal syntheses, structures, and magnetic properties of Mn-Ge-sulfides/selenides. <i>Inorganic Chemistry</i> , 2014 , 53, 10248-56	5.1	39
138	Non-Newtonian fluid flow model for ceramic tape casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 280, 282-288	5.3	39
137	Tape casting of high dielectric ceramic composite substrates for microelectronics application. <i>Journal of Materials Processing Technology</i> , 1999 , 89-90, 508-512	5.3	37
136	Body temperature-responsive two-way and moisture-responsive one-way shape memory behaviors of poly(ethylene glycol)-based networks. <i>Polymer Chemistry</i> , 2017 , 8, 3833-3840	4.9	36

135	Highly manufacturable graphene oxide biosensor for sensitive Interleukin-6 detection. <i>RSC Advances</i> , 2015 , 5, 39245-39251	3.7	35
134	Detection of Matrilysin Activity Using Polypeptide Functionalized Reduced Graphene Oxide Field-Effect Transistor Sensor. <i>Analytical Chemistry</i> , 2016 , 88, 2994-8	7.8	35
133	Spray pyrolysis of CuIn(S,Se) ₂ solar cells with 5.9% efficiency: a method to prevent Mo oxidation in ambient atmosphere. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6638-43	9.5	35
132	Development of Cr-Tolerant Cathodes of Solid Oxide Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B42		35
131	Synthesis and Crystal Structure Characterization of Silicate Apatite Sr ₂ Y ₈ (SiO ₄) ₆ O ₂ . <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1176-1182	3.8	34
130	Label-free electronic detection of interleukin-6 using horizontally aligned carbon nanotubes. <i>Materials and Design</i> , 2016 , 90, 852-857	8.1	34
129	Atomic-Layer-Deposited Amorphous MoS ₂ for Durable and Flexible LiO ₂ Batteries. <i>Small Methods</i> , 2020 , 4, 1900274	12.8	34
128	Study of the cation distributions in Eu doped Sr ₂ Y ₈ (SiO ₄) ₆ O ₂ by X-ray diffraction and photoluminescent spectra. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 3093-3099	3.3	33
127	A dual-colored bio-marker made of doped ZnO nanocrystals. <i>Nanotechnology</i> , 2008 , 19, 345605	3.4	33
126	Toughness control of boron carbide obtained by spark plasma sintering in nitrogen atmosphere. <i>Ceramics International</i> , 2014 , 40, 3053-3061	5.1	32
125	Aqueous tape casting of 10 mol%-Gd ₂ O ₃ -doped CeO ₂ nano-particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 429, 266-271	5.3	32
124	Nanosize stabilization of cubic and tetragonal phases in reactive plasma synthesized zirconia powders. <i>Materials Chemistry and Physics</i> , 2013 , 140, 176-182	4.4	31
123	Efficient Near Infrared Modulation with High Visible Transparency Using SnO ₂ /WO ₃ Nanostructure for Advanced Smart Windows. <i>Advanced Optical Materials</i> , 2019 , 7, 1801389	8.1	30
122	On the effects of secondary phase on thermal conductivity of AlN ceramic substrates using a microstructural modeling approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 335, 281-289	5.3	29
121	Phase reaction and sintering behavior of a Al ₂ O ₃ -x wt% AlN-y wt% Y ₂ O ₃ system. <i>Acta Materialia</i> , 2001 , 49, 3117-3127	8.4	29
120	Highly porous SnO ₂ nanosheet arrays sandwiched within TiO ₂ and CdS quantum dots for efficient photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019 , 470, 800-806	6.7	29
119	3D FTO/FTO-Nanocrystal/TiO Composite Inverse Opal Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Small</i> , 2018 , 14, e1800395	11	28
118	A review on electronic bio-sensing approaches based on non-antibody recognition elements. <i>Analyst, The</i> , 2016 , 141, 2335-46	5	28

117	Measuring Artificial Sweeteners Toxicity Using a Bioluminescent Bacterial Panel. <i>Molecules</i> , 2018 , 23,	4.8	28
116	Thermal Conductivity Enhancement of Coaxial Carbon@Boron Nitride Nanotube Arrays. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14555-14560	9.5	27
115	A pressure tuned stop-flow atomic layer deposition process for MoS2 on high porous nanostructure and fabrication of TiO2/MoS2 core/shell inverse opal structure. <i>Applied Surface Science</i> , 2017 , 422, 536-543	6.7	27
114	Power law fluids and Bingham plastics flow models for ceramic tape casting. <i>Journal of Materials Processing Technology</i> , 2002 , 120, 215-225	5.3	27
113	Point-of-Care-Testing in Acute Stroke Management: An Unmet Need Ripe for Technological Harvest. <i>Biosensors</i> , 2017 , 7,	5.9	26
112	A carbon monoxide gas sensor using oxygen plasma modified carbon nanotubes. <i>Nanotechnology</i> , 2012 , 23, 425502	3.4	26
111	An improved synthesis route to graphene for molecular sensor applications. <i>Materials Chemistry and Physics</i> , 2012 , 136, 304-308	4.4	26
110	Magnetic field assisted preconcentration of biomolecules for lateral flow assaying. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 431-437	8.5	25
109	TiO2/WO3 core/shell inverse opal structure with enhanced electrochromic performance in NIR region. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8488-8494	7.1	25
108	Synergetically enhanced near-infrared photoresponse of reduced graphene oxide by upconversion and gold plasmon. <i>Small</i> , 2014 , 10, 3637-43	11	25
107	Electrochromic photonic crystal displays with versatile color tunability. <i>Electrochemistry Communications</i> , 2011 , 13, 1163-1165	5.1	25
106	Coaxial carbon@boron nitride nanotube arrays with enhanced thermal stability and compressive mechanical properties. <i>Nanoscale</i> , 2016 , 8, 11114-22	7.7	25
105	The detection and measurement of interleukin-6 in venous and capillary blood samples, and in sweat collected at rest and during exercise. <i>European Journal of Applied Physiology</i> , 2014 , 114, 1207-16	3.4	24
104	Phase transformation of ultrafine rare earth oxide powders synthesized by radio frequency plasma spraying. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 125-130	6	24
103	Consolidation and properties of Gd0.1Ce0.9O1.95 nanoparticles for solid-oxide fuel cell electrolytes. <i>Journal of Materials Research</i> , 2006 , 21, 119-124	2.5	23
102	Room and high temperature flexural failure of spark plasma sintered boron carbide. <i>Ceramics International</i> , 2016 , 42, 7001-7013	5.1	23
101	High hardness BaCb-(BxOy/BN) composites with 3D mesh-like fine grain-boundary structure by reactive spark plasma sintering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 959-65	1.3	22
100	Optical and electro-optic anisotropy of epitaxial PZT thin films. <i>Applied Physics Letters</i> , 2015 , 107, 031903	3.4	20

99	Synthesis and Electron-Phonon Interactions of Ce ³⁺ -Doped YAG Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5974-5979	3.8	20
98	An Electrochemical Method to Assess the Chromium Volatility of Chromia-Forming Metallic Interconnect for SOFCs. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2120	3.9	20
97	Point-of-Care Surface Plasmon Resonance Biosensor for Stroke Biomarkers NT-proBNP and S100 β Using a Functionalized Gold Chip with Specific Antibody. <i>Sensors</i> , 2019 , 19,	3.8	19
96	Functionalized silicon dioxide self-referenced plasmonic chip as point-of-care biosensor for stroke biomarkers NT-proBNP and S100 β <i>Talanta</i> , 2020 , 212, 120792	6.2	19
95	Multicolor tunability and upconversion enhancement of fluoride nanoparticles by oxygen dopant. <i>Nanoscale</i> , 2013 , 5, 8164-71	7.7	19
94	Amorphous TiO ₂ coated hierarchical WO ₃ Nanosheet/CdS Nanorod arrays for improved photoelectrochemical performance. <i>Applied Surface Science</i> , 2019 , 490, 411-419	6.7	18
93	Gradient inverse opal photonic crystals via spatially controlled template replication of self-assembled opals. <i>Nanoscale</i> , 2011 , 3, 4951	7.7	17
92	Homogeneous precipitation of Dy ₂ O ₃ nanoparticles-effects of synthesis parameters. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 907-15	1.3	17
91	The mechanism of graphene oxide as a growth template for complete reduced graphene oxide coverage on an SiO ₂ substrate. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 109-114	7.1	15
90	Electron-phonon interactions in ce ³⁺ -doped yttrium aluminum garnet nanophosphors. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10830-2	3.4	15
89	Horizontally Aligned Carbon Nanotube Based Biosensors for Protein Detection. <i>Bioengineering</i> , 2016 , 3,	5.3	15
88	NaYF ₄ :Yb,Er-MoS ₂ : from synthesis and surface ligand stripping to negative infrared photoresponse. <i>Chemical Communications</i> , 2015 , 51, 9030-3	5.8	14
87	Multicolored Photonic Crystal Carbon Fiber Yarns and Fabrics with Mechanical Robustness for Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32261-32268	9.5	14
86	Chemical Synthesis of ZnO Nanocrystals. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 497-503	2.6	14
85	Dissolvable Polyvinyl-Alcohol Film, a Time-Barrier to Modulate Sample Flow in a 3D-Printed Holder for Capillary Flow Paper Diagnostics. <i>Materials</i> , 2019 , 12,	3.5	14
84	Non-catalytic facile synthesis of superhard phase of boron carbide (B ₁₃ C ₂) nanoflakes and nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 596-603	1.3	13
83	Electrochromic smart glass coating on functional nano-frameworks for effective building energy conservation. <i>Materials Today Energy</i> , 2020 , 18, 100496	7	13
82	A novel non-catalytic synthesis method for zero- and two-dimensional B ₁₃ C ₂ nanostructures. <i>CrystEngComm</i> , 2011 , 13, 1299-1303	3.3	12

81	Tape casting of high dielectric ceramic substrates for microelectronics packaging. <i>Journal of Materials Engineering and Performance</i> , 1999 , 8, 469-472	1.6	12
80	Electrodeposition of amorphous WO ₃ on SnO ₂ /TiO ₂ inverse opal nano-framework for highly transparent, effective and stable electrochromic smart window. <i>RSC Advances</i> , 2019 , 9, 16730-16737	3.7	11
79	Periodic FTO IOs/CdS NRs/CdSe Clusters with Superior Light Scattering Ability for Improved Photoelectrochemical Performance. <i>Small</i> , 2020 , 16, e1905826	11	11
78	Electrospraying of water in the cone-jet mode in air at atmospheric pressure. <i>International Journal of Mass Spectrometry</i> , 2008 , 272, 199-203	1.9	10
77	Electrochemical impedimetric detection of stroke biomarker NT-proBNP using disposable screen-printed gold electrodes. <i>The EuroBiotech Journal</i> , 2017 , 1, 165-176	1.5	9
76	One stone kills four birds: a novel diazaperinone 12H-pyrazino[2,3-f:3',4']pyrrolo[1,2-a]perimidin-12-one recognizes four different metal ions. <i>Tetrahedron Letters</i> , 2012 , 53, 6044-6047	2	9
75	Porous AlN ceramic substrates by reaction sintering. <i>Journal of Materials Processing Technology</i> , 2003 , 140, 413-419	5.3	9
74	Blood-Based Biomarkers Are Associated with Different Ischemic Stroke Mechanisms and Enable Rapid Classification between Cardioembolic and Atherosclerosis Etiologies. <i>Diagnostics</i> , 2020 , 10,	3.8	9
73	Development of a chemiluminescent DNA fibre optic genosensor to Hepatitis A Virus (HAV). <i>Talanta</i> , 2017 , 174, 401-408	6.2	8
72	Development of High-Performance Bismuth Sulfide Nanobelts Humidity Sensor and Effect of Humid Environment on its Transport Properties. <i>ACS Omega</i> , 2019 , 4, 2030-2039	3.9	8
71	Electrophoretic deposition of reduced graphene oxide thin films for reduction of cross-sectional heat diffusion in glass windows. <i>Journal of Science: Advanced Materials and Devices</i> , 2019 , 4, 252-259	4.2	8
70	Gold nanoparticle conjugated magnetic beads for extraction and nucleation based signal amplification in lateral flow assaying. <i>Sensors and Actuators B: Chemical</i> , 2020 , 312, 127959	8.5	8
69	Enhanced Colorimetric Signal for Accurate Signal Detection in Paper-Based Biosensors. <i>Diagnostics</i> , 2020 , 10,	3.8	8
68	Supercompressible Coaxial Carbon Nanotube@Graphene Arrays with Invariant Viscoelasticity over -100 to 500 °C in Ambient Air. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9688-9695	9.5	8
67	Twin step synthesis of mullite and mullite/zirconia composite in low power transferred arc plasma (TAP) torch. <i>Materials Characterization</i> , 2011 , 62, 419-424	3.9	8
66	Novel felt pseudocapacitor based on carbon nanotube/metal oxides. <i>Journal of Materials Science</i> , 2015 , 50, 6578-6585	4.3	7
65	Additive-Free Electrophoretic Deposition of Graphene Quantum Dots Thin Films. <i>Chemistry - A European Journal</i> , 2019 , 25, 16573	4.8	7
64	Reporter-encapsulated liposomes on graphene field effect transistors for signal enhanced detection of physiological enzymes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3451-6	3.6	7

63	Optical and Electrical Properties of Wurtzite Copper Indium Sulfide Nanoflakes. <i>Materials Express</i> , 2012 , 2, 344-350	1.3	7
62	Physical and electrical properties of bilayer CeO ₂ /TiO ₂ gate dielectric stack. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 210, 57-63	3.1	7
61	Interfacial characterization and erosive wear performance of zirconia toughened alumina ceramics particles reinforced high chromium white cast irons composites. <i>Tribology International</i> , 2022 , 165, 107262	4.9	7
60	Cyclic formation of boron suboxide crystallites into star-shaped nanoplates. <i>Scripta Materialia</i> , 2015 , 99, 69-72	5.6	6
59	Cubic nanoassembly of garnet nanocrystals. <i>CrystEngComm</i> , 2009 , 11, 1880	3.3	6
58	Novel Nd/Mo co-doped SnO ₂ /WO ₃ electrochromic materials (ECs) for enhanced smart window performance. <i>Ceramics International</i> , 2021 , 47, 18433-18442	5.1	6
57	Point of care testing of sports biomarkers: Potential applications, recent advances and future outlook. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 142, 116327	14.6	6
56	Fabrication and characterization of graphene quantum dots thin film for reducing cross-sectional heat transfer through smart window. <i>Materials Research Bulletin</i> , 2020 , 127, 110861	5.1	5
55	Novel moisture management test of polyethylene terephthalate and nylon fabric under stretching and surface patterning. <i>Textile Reseach Journal</i> , 2018 , 88, 69-79	1.7	5
54	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
53	Development of Translucent Oxyapatite Ceramics by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3060-3063	3.8	5
52	Nanoblast synthesis and consolidation of (La _{0.8} Sr _{0.2})(Ga _{0.9} Mg _{0.1})O _(3-δ) under Spark plasma sintering conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 141-9	1.3	5
51	RF Plasma Synthesis of Boron Carbide Nanoparticles. <i>Solid State Phenomena</i> , 2008 , 136, 23-38	0.4	5
50	Strategy of the Development of Cr-tolerant Cathodes of Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2007 , 7, 263-269	1	5
49	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. <i>Advanced Materials</i> , 2021 , e2106212	24	5
48	Inorganic Photonic Microspheres with Localized Concentric Ordering for Deep Pattern Encoding and Triple Sensory Microsensor. <i>Small</i> , 2020 , 16, e2003638	11	5
47	B-Type Natriuretic Peptide as a Significant Brain Biomarker for Stroke Triaging Using a Bedside Point-of-Care Monitoring Biosensor. <i>Biosensors</i> , 2020 , 10,	5.9	5
46	Improved synthesis and growth of graphene oxide for field effect transistor biosensors. <i>Biomedical Microdevices</i> , 2016 , 18, 61	3.7	5

45	Interfacial characteristics and wear performances of iron matrix composites reinforced with zirconia-toughened alumina ceramic particles. <i>Ceramics International</i> , 2021 , 48, 1293-1293	5.1	5
44	Inverse Opals: Quantum-Dot-Sensitized TiO ₂ Inverse Opals for Photoelectrochemical Hydrogen Generation (Small 1/2012). <i>Small</i> , 2012 , 8, 36-36	11	4
43	Layered Nanomaterials: Fabrication of Single- and Multilayer MoS ₂ Film-Based Field-Effect Transistors for Sensing NO at Room Temperature (Small 1/2012). <i>Small</i> , 2012 , 8, 2-2	11	4
42	Atomic Layer Deposition of Inverse Opals for Solar Cell Applications. <i>Advanced Materials Research</i> , 2013 , 789, 3-7	0.5	4
41	Chemical gelation of cerium (III)-doped yttrium aluminium oxide spherical particles. <i>Journal of Materials Research</i> , 2006 , 21, 2510-2515	2.5	4
40	Solvent and plasma gas influence on the synthesis of Y ₂ O ₃ nanoparticles by suspension plasma spraying. <i>Journal of Materials Research</i> , 2007 , 22, 1306-1313	2.5	4
39	Membrane type comparison and modification to modulate sample flow in paper diagnostics. <i>Biochemical Engineering Journal</i> , 2020 , 155, 107483	4.2	4
38	Wafer-Scale Vertically Aligned Carbon Nanotubes Locked by In Situ Hydrogelation toward Strengthening Static and Dynamic Compressive Responses. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800024	3.9	4
37	Nd-Nb Co-doped SnO ₂ /WO ₃ Electrochromic Materials: Enhanced Stability and Switching Properties. <i>ACS Omega</i> , 2021 , 6, 26251-26261	3.9	4
36	Atomic layer deposition of rhodium and palladium thin film using low-concentration ozone.. <i>RSC Advances</i> , 2021 , 11, 22773-22779	3.7	4
35	Noble metal alloy thin films by atomic layer deposition and rapid Joule heating.. <i>Scientific Reports</i> , 2022 , 12, 2522	4.9	4
34	Sustainable development of graphitic carbon nanosheets from plastic wastes with efficient photothermal energy conversion for enhanced solar evaporation. <i>Journal of Materials Chemistry A</i> ,	13	4
33	Photoinducible silane diazirine as an effective crosslinker in the construction of a chemiluminescent immunosensor targeting a model E. coli analyte. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 234-242	8.5	3
32	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) ₂ solar cell. <i>RSC Advances</i> , 2014 , 4, 58372-58376	3.7	3
31	High index, reactive facet-controlled synthesis of one-dimensional single crystalline rare earth hydroxide nanobelts. <i>CrystEngComm</i> , 2011 , 13, 5367	3.3	3
30	Characterization of Mullite-Zirconia Composite Processed by Non-Transferred and Transferred Arc Plasma. <i>Plasma Science and Technology</i> , 2009 , 11, 200-205	1.5	3
29	Mono-distributed single-walled carbon nanotube channel in field effect transistors (FETs) using electrostatic atomization deposition. <i>Journal of Colloid and Interface Science</i> , 2009 , 338, 266-9	9.3	3
28	Self-Assembled VO Mesh Film-Based Resistance Switches with High Transparency and Abrupt ON/OFF Ratio. <i>ACS Omega</i> , 2019 , 4, 19635-19640	3.9	3

27	Synthesis of Al ₂ O ₃ /AlN composite powders by plasma processed Al ₂ O ₃ with various additives. <i>Journal of Materials Research</i> , 2004 , 19, 1356-1363	2.5	2
26	Porous reaction-sintered AlN tapes for high-performance microelectronics application. <i>Journal of Materials Research</i> , 2002 , 17, 306-314	2.5	2
25	Effect of chromium on erosion-corrosion properties of ZrO ₂ -Al ₂ O ₃ particles reinforced Fe-based composites in artificial seawater slurries. <i>Corrosion Science</i> , 2022 , 198, 110138	6.8	2
24	Atomic layer deposition of palladium thin film from palladium (II) hexafluoroacetylacetonate and ozone reactant. <i>Thin Solid Films</i> , 2021 , 738, 138955	2.2	2
23	Blood biomarkers to detect new-onset atrial fibrillation and cardioembolism in ischemic stroke patients. <i>Heart Rhythm</i> , 2021 , 18, 855-861	6.7	2
22	Highly ordered nano-scale structure in nacre of green-lipped mussel <i>Perna canaliculus</i> . <i>CrystEngComm</i> , 2016 , 18, 7501-7505	3.3	2
21	Correlations Between Precursor Molecular Weight and Dynamic Mechanical Properties of Polyborosiloxane (PBS). <i>Macromolecular Materials and Engineering</i> , 2100360	3.9	2
20	Development of Core-Shell Rh@Pt and Rh@Ir Nanoparticle Thin Film Using Atomic Layer Deposition for HER Electrocatalysis Applications. <i>Processes</i> , 2022 , 10, 1008	2.9	2
19	Humidity and selective oxygen detection by Ag ₂ S nanoparticles gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10117-10127	2.1	1
18	Electrochromic Materials: Efficient Near Infrared Modulation with High Visible Transparency Using SnO ₂ /WO ₃ Nanostructure for Advanced Smart Windows (Advanced Optical Materials 8/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970031	8.1	1
17	A Source of Error in Photoanode Evaluation. <i>Joule</i> , 2019 , 3, 305-310	27.8	1
16	Improved mechanical and thermomechanical properties of alumina substrate via iron doping. <i>Scripta Materialia</i> , 2013 , 68, 869-872	5.6	1
15	Phase characterization of Sm ^{III} U mixed oxide powders prepared by sintering and radio frequency plasma spraying. <i>Zeitschrift für Kristallographie</i> , 2009 , 224, 198-206		1
14	Properties of Porous AlN Multilayered Ceramic Sandwich Substrates. <i>Journal of Materials Research</i> , 2002 , 17, 1061-1068	2.5	1
13	Fabrication and wear property of NiCo coated ZrO ₂ /Al ₂ O ₃ ceramic particles reinforced high manganese steel-based composites. <i>Wear</i> , 2022 , 492-493, 204235	3.5	1
12	Ordered Array of Metal Particles on Semishell Separated with Ultrathin Oxide: Fabrication and SERS Properties. <i>Coatings</i> , 2019 , 9, 20	2.9	1
11	Bio-inspired structured boron carbide-boron nitride composite by reactive spark plasma sintering. <i>Virtual and Physical Prototyping</i> , 2013 , 8, 253-258	10.1	0
10	Development of nitrogen-decorated carbon dots (NCDs) thermally conductive film for windows application. <i>Carbon Letters</i> , 1	2.3	0

9	Conduction heat transfer switching using magnetic Fe _x O _y -decorated carbon-based nanomaterials. <i>European Physical Journal: Special Topics</i> ,1	2.3	0
8	Growth of Reduced Graphene Oxide. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1702, 1		
7	Light Harvesting: Photon Upconversion in Hetero-nanostructured Photoanodes for Enhanced Near-Infrared Light Harvesting (Adv. Mater. 11/2013). <i>Advanced Materials</i> , 2013 , 25, 1656-1656	24	
6	Synthesis, Rietveld Refinement and High Resolution Transmission Electron Microscopy of Yb doped Silicate Oxyapatite for Ultrafast Laser Systems. <i>Microscopy and Microanalysis</i> , 2008 , 14, 288-289	0.5	
5	Enhancing interfacial bonding of oxide ceramic particles/high manganese steel-based composites by NiCr alloy coating. <i>Materials Today Communications</i> , 2022 , 31, 103257	2.5	
4	Development of biaxial stretchable nonwoven paddings using novel polymeric fibers. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 2887-2898	3.2	
3	Adsorption and Reaction Mechanisms of Direct Palladium Synthesis by ALD Using Pd(hfac) ₂ and Ozone on Si (100) Surface. <i>Processes</i> , 2021 , 9, 2246	2.9	
2	Elucidation of abrasive wear and slurry erosion behavior of Fe matrix composites reinforced with metallic coating modified ZTAP ceramics. <i>Composite Interfaces</i> ,1-21	2.3	
1	Interfacial bonding and abrasive wear behaviours of the iron matrix composites. <i>Materials Science and Technology</i> ,1-12	1.5	