Alfred Iing Yoong Tok

List of Publications by Year
in descending order

174	7,552	76196	58464
papers	citations	40 h-index	82 g-index

178	178	178	12148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fabrication of Singleâ€•and Multilayer MoS₂ Filmâ€Based Fieldâ€Effect Transistors for Sensing NO at Room Temperature. Small, 2012, 8, 63-67.	5.2	1,346
2	Lanthanide-Doped Na_xScF_{3+x} Nanocrystals: Crystal Structure Evolution and Multicolor Tuning. Journal of the American Chemical Society, 2012, 134, 8340-8343.	6.6	315
3	Nanostructured metallic transition metal carbides, nitrides, phosphides, and borides for energy storage and conversion. Nano Today, 2019, 25, 99-121.	6.2	274
4	Hydrothermal synthesis of CeO2 nano-particles. Journal of Materials Processing Technology, 2007, 190, 217-222.	3.1	216
5	Quantumâ€Dotâ€Sensitized TiO₂ Inverse Opals for Photoelectrochemical Hydrogen Generation. Small, 2012, 8, 37-42.	5.2	208
6	Surface modification of ZnO nanocrystals. Applied Surface Science, 2007, 253, 5473-5479.	3.1	196
7	Biocompatible Hydroxylated Boron Nitride Nanosheets/Poly(vinyl alcohol) Interpenetrating Hydrogels with Enhanced Mechanical and Thermal Responses. ACS Nano, 2017, 11, 3742-3751.	7.3	191
8	Two-Dimensional SiO₂/VO₂ Photonic Crystals with Statically Visible and Dynamically Infrared Modulated for Smart Window Deployment. ACS Applied Materials & Interfaces, 2016, 8, 33112-33120.	4.0	153
9	Ceramic tape casting: A review of current methods and trends with emphasis on rheological behaviour and flow analysis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 212, 39-61.	1.7	134
10	Novel synthesis of Al2O3 nano-particles by flame spray pyrolysis. Journal of Materials Processing Technology, 2006, 178, 270-273.	3.1	131
11	A review on technological aspects influencing commercialization of carbon nanotube sensors. Sensors and Actuators B: Chemical, 2011, 157, 1-7.	4.0	131
12	Carbonate Co-precipitation of Gd2O3-doped CeO2 solid solution nano-particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 383, 229-234.	2.6	127
13	Photon Upconversion in Heteroâ€•nanostructured Photoanodes for Enhanced Nearâ€•Infrared Light Harvesting. Advanced Materials, 2013, 25, 1603-1607.	11.1	127
14	Surface modifications of ZnO quantum dots for bio-imaging. Nanotechnology, 2007, 18, 215604.	1.3	126
15	TiO₂inverse-opal electrode fabricated by atomic layer deposition for dye-sensitized solar cell applications. Energy and Environmental Science, 2011, 4, 209-215.	15.6	122
16	Kinetically Controlling Phase Transformations of Crystalline Mercury Selenidostannates through Surfactant Media. Inorganic Chemistry, 2013, 52, 4148-4150.	1.9	121
17	Hydrothermal synthesis and characterization of rare earth doped ceria nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 466, 223-229.	2.6	103
18	A Novel Photoanode with Threeâ€Dimensionally, Hierarchically Ordered Nanobushes for Highly Efficient Photoelectrochemical Cells. Advanced Materials, 2012, 24, 4157-4162.	11.1	93

#	Article	IF	Citations
19	Fabrication and performance of gadolinia-doped ceria-based intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2008, 178, 69-74.	4.0	86
20	Applications of atomic layer deposition in solar cells. Nanotechnology, 2015, 26, 064001.	1.3	86
21	Homogeneous Photosensitization of Complex TiO2 Nanostructures for Efficient Solar Energy Conversion. Scientific Reports, 2012, 2, 451.	1.6	81
22	GDC-impregnated Ni anodes for direct utilization of methane in solid oxide fuel cells. Journal of Power Sources, 2006, 159, 68-72.	4.0	80
23	La(Ni,Fe)O3 as a cathode material with high tolerance to chromium poisoning for solid oxide fuel cells. Journal of Power Sources, 2007, 170, 61-66.	4.0	80
24	Atomic layer deposition for nanofabrication and interface engineering. Nanoscale, 2012, 4, 1522.	2.8	80
25	Characterization of nano-crystalline ZrO2 synthesized via reactive plasma processing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 894-899.	1.7	73
26	Two-dimensional SnS nanoflakes: synthesis and application to acetone and alcohol sensors. RSC Advances, 2017, 7, 21556-21566.	1.7	72
27	Selective sensing of hydrogen sulphide using silver nanoparticle decorated carbon nanotubes. Sensors and Actuators B: Chemical, 2009, 138, 189-192.	4.0	70
28	3-Dimensional photonic crystal surface enhanced upconversion emission for improved near-infrared photoresponse. Nanoscale, 2014, 6, 817-824.	2.8	69
29	Body temperature-responsive two-way and moisture-responsive one-way shape memory behaviors of poly(ethylene glycol)-based networks. Polymer Chemistry, 2017, 8, 3833-3840.	1.9	55
30	Flame spray synthesis of ZrO2 nano-particles using liquid precursors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 130, 114-119.	1.7	54
31	AtomicâEŁayerâEDeposited Amorphous MoS₂ for Durable and Flexible Liâ€“O₂ Batteries. Small Methods, 2020, 4, 1900274.	4.6	52
32	Inverse opals coupled with nanowires as photoelectrochemical anode. Nano Energy, 2012, 1, 322-327.	8.2	50
33	Non-Newtonian fluid flow model for ceramic tape casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 280, 282-288.	2.6	49
34	Measuring Artificial Sweeteners Toxicity Using a Bioluminescent Bacterial Panel. Molecules, 2018, 23, 2454.	1.7	46
35	Detection of Matrilysin Activity Using Polypeptide Functionalized Reduced Graphene Oxide Field-Effect Transistor Sensor. Analytical Chemistry, 2016, 88, 2994-2998.	3.2	45
36	NitrogenâEDoped Carbon NanotubeâEBased Bilayer Thin Film as Transparent Counter Electrode for DyeâESensitized Solar Cells (DSSCs). Chemistry - an Asian Journal, 2012, 7, 541-545.	1.7	44

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37	Surfactant-Thermal Syntheses, Structures, and Magnetic Properties of Mnâ€“Geâ€“Sulfides/Selenides. Inorganic Chemistry, 2014, 53, 10248-10256.	1.9	44
38	Label-free electronic detection of interleukin-6 using horizontally aligned carbon nanotubes. Materials and Design, 2016, 90, 852-857.	3.3	44
39	Tape casting of high dielectric ceramic composite substrates for microelectronics application. Journal of Materials Processing Technology, 1999, 89-90, 508-512.	3.1	43
40	Highly manufacturable graphene oxide biosensor for sensitive Interleukin-6 detection. RSC Advances, 2015, 5, 39245-39251.	1.7	43
41	Spray Pyrolysis of CuIn(S,Se)₂ Solar Cells with 5.9% Efficiency: A Method to Prevent Mo Oxidation in Ambient Atmosphere. ACS Applied Materials & Interfaces, 2014, 6, 6638-6643.	4.0	42
42	Point-of-Care Surface Plasmon Resonance Biosensor for Stroke Biomarkers NT-proBNP and S100Î² Using a Functionalized Gold Chip with Specific Antibody. Sensors, 2019, 19, 2533.	2.1	42
43	A dual-colored bio-marker made of doped ZnO nanocrystals. Nanotechnology, 2008, 19, 345605.	1.3	41
44	Point-of-Care-Testing in Acute Stroke Management: An Unmet Need Ripe for Technological Harvest. Biosensors, 2017, 7, 30.	2.3	40
45	Study of the cation distributions in Eu doped Sr2Y8(SiO4)6O2 by X-ray diffraction and photoluminescent spectra. Journal of Solid State Chemistry, 2010, 183, 3093-3099.	1.4	39
46	Synthesis and Crystal Structure Characterization of Silicate Apatite Sr₂Y₈(SiO₄)₆O₂. Journal of the American Ceramic Society, 2010, 93, 1176-1182.	1.9	39
47	Nanosize stabilization of cubic and tetragonal phases in reactive plasma synthesized zirconia powders. Materials Chemistry and Physics, 2013, 140, 176-182.	2.0	39
48	Dissolvable Polyvinyl-Alcohol Film, a Time-Barrier to Modulate Sample Flow in a 3D-Printed Holder for Capillary Flow Paper Diagnostics. Materials, 2019, 12, 343.	1.3	39
49	Efficient Near Infrared Modulation with High Visible Transparency Using SnO₂â€“WO₃ Nanostructure for Advanced Smart Windows. Advanced Optical Materials, 2019, 7, 1801389.	3.6	38
50	Development of Cr-Tolerant Cathodes of Solid Oxide Fuel Cells. Electrochemical and Solid-State Letters, 2008, 11, B42.	2.2	37
51	3D FTO/FTOâ€Nanocrystal/TiO₂ Composite Inverse Opal Photoanode for Efficient Photoelectrochemical Water Splitting. Small, 2018, 14, e1800395.	5.2	37
52	On the effects of secondary phase on thermal conductivity of AlN ceramic substrates using a microstructural modeling approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 335, 281-289.	2.6	36
53	Highly porous SnO2 nanosheet arrays sandwiched within TiO2 and CdS quantum dots for efficient photoelectrochemical water splitting. Applied Surface Science, 2019, 470, 800-806.	3.1	36
54	A carbon monoxide gas sensor using oxygen plasma modified carbon nanotubes. Nanotechnology, 2012, 23, 425502.	1.3	35

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55	A review on electronic bio-sensing approaches based on non-antibody recognition elements. Analyst, The, 2016, 141, 2335-2346.	1.7	35
56	Thermal Conductivity Enhancement of Coaxial Carbon@Boron Nitride Nanotube Arrays. ACS Applied Materials & Interfaces, 2017, 9, 14555-14560.	4.0	35
57	Toughness control of boron carbide obtained by spark plasma sintering in nitrogen atmosphere. Ceramics International, 2014, 40, 3053-3061.	2.3	34
58	TiO₂â€“WO₃ coreâ€“shell inverse opal structure with enhanced electrochromic performance in NIR region. Journal of Materials Chemistry C, 2018, 6, 8488-8494.	2.7	34
59	Magnetic field assisted preconcentration of biomolecules for lateral flow assaying. Sensors and Actuators B: Chemical, 2019, 285, 431-437.	4.0	34
60	Aqueous tape casting of 10mol%-Gd2O3-doped CeO2 nano-particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 266-271.	2.6	33
61	Electrochromic photonic crystal displays with versatile color tunability. Electrochemistry Communications, 2011, 13, 1163-1165.	2.3	33
62	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. Applied Surface Science, 2017, 422, 536-543.	3.1	32
63	Phase reaction and sintering behavior of a Al2O3â€“20wt%AlNâ€“5wt%Y2O3 system. Acta Materialia, 2001, 49, 3117-3127.	3.8	31
64	Synergetically Enhanced Nearâ€Infrared Photoresponse of Reduced Graphene Oxide by Upconversion and Gold Plasmon. Small, 2014, 10, 3637-3643.	5.2	31
65	Power law fluids and Bingham plastics flow models for ceramic tape casting. Journal of Materials Processing Technology, 2002, 120, 215-225.	3.1	30
66	An improved synthesis route to graphene for molecular sensor applications. Materials Chemistry and Physics, 2012, 136, 304-308.	2.0	30
67	The detection and measurement of interleukin-6 in venous and capillary blood samples, and in sweat collected at rest and during exercise. European Journal of Applied Physiology, 2014, 114, 1207-1216.	1.2	30
68	Optical and electro-optic anisotropy of epitaxial PZT thin films. Applied Physics Letters, 2015, 107, .	1.5	30
69	Coaxial carbon@boron nitride nanotube arrays with enhanced thermal stability and compressive mechanical properties. Nanoscale, 2016, 8, 11114-11122.	2.8	30
70	Functionalized silicon dioxide self-referenced plasmonic chip as point-of-care biosensor for stroke biomarkers NT-proBNP and S100Î². Talanta, 2020, 212, 120792.	2.9	29
71	Room and high temperature flexural failure of spark plasma sintered boron carbide. Ceramics International, 2016, 42, 7001-7013.	2.3	28
72	Consolidation and properties of Gd0.1Ce0.9O1.95 nanoparticles for solid-oxide fuel cell electrolytes. Journal of Materials Research, 2006, 21, 119-124.	1.2	27

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73	Multicolored Photonic Crystal Carbon Fiber Yarns and Fabrics with Mechanical Robustness for Thermal Management. ACS Applied Materials & Interfaces, 2019, 11, 32261-32268.	4.0	27
74	Interfacial characterization and erosive wear performance of zirconia toughened alumina ceramics particles reinforced high chromium white cast irons composites. Tribology International, 2022, 165, 107262.	3.0	27
75	An Electrochemical Method to Assess the Chromium Volatility of Chromia-Forming Metallic Interconnect for SOFCs. Journal of the Electrochemical Society, 2006, 153, A2120.	1.3	26
76	Phase transformation of ultrafine rare earth oxide powders synthesized by radio frequency plasma spraying. Journal of the European Ceramic Society, 2007, 27, 125-130.	2.8	26
77	Point of care testing of sports biomarkers: Potential applications, recent advances and future outlook. TrAC - Trends in Analytical Chemistry, 2021, 142, 116327.	5.8	25
78	High Hardness B_aC_b-(B_xO_y/BN) Composites with 3D Mesh-Like Fine Grain-Boundary Structure by Reactive Spark Plasma Sintering. Journal of Nanoscience and Nanotechnology, 2012, 12, 959-965.	0.9	24
79	Enhanced Colorimetric Signal for Accurate Signal Detection in Paper-Based Biosensors. Diagnostics, 2020, 10, 28.	1.3	23
80	Periodic FTO IOs/CdS NRs/CdSe Clusters with Superior Light Scattering Ability for Improved Photoelectrochemical Performance. Small, 2020, 16, e1905826.	5.2	22
81	Synthesis and Electronâ˜Phonon Interactions of Ce³⁺-Doped YAG Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 5974-5979.	1.5	21
82	Horizontally Aligned Carbon Nanotube Based Biosensors for Protein Detection. Bioengineering, 2016, 3, 23.	1.6	21
83	Amorphous TiO2 coated hierarchical WO3 Nanosheet/CdS Nanorod arrays for improved photoelectrochemical performance. Applied Surface Science, 2019, 490, 411-419.	3.1	21
84	Electrochromic smart glass coating on functional nano-frameworks for effective building energy conservation. Materials Today Energy, 2020, 18, 100496.	2.5	21
85	Novel Ndâ€“Mo co-doped SnO2/Î±-WO3 electrochromic materials (ECs) for enhanced smart window performance. Ceramics International, 2021, 47, 18433-18442.	2.3	21
86	Sustainable development of graphitic carbon nanosheets from plastic wastes with efficient photothermal energy conversion for enhanced solar evaporation. Journal of Materials Chemistry A, 2022, 10, 19612-19617.	5.2	21
87	Homogeneous Precipitation of Dy2O3 Nanoparticlesâ€”Effects of Synthesis Parameters. Journal of Nanoscience and Nanotechnology, 2007, 7, 907-915.	0.9	19
88	Gradient inverse opal photonic crystals via spatially controlled template replication of self-assembled opals. Nanoscale, 2011, 3, 4951.	2.8	19
89	Multicolor tunability and upconversion enhancement of fluoride nanoparticles by oxygen dopant. Nanoscale, 2013, 5, 8164.	2.8	19
90	Gold nanoparticle conjugated magnetic beads for extraction and nucleation based signal amplification in lateral flow assaying. Sensors and Actuators B: Chemical, 2020, 312, 127959.	4.0	19

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91	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. Advanced Materials, 2022, 34, e2106212.	11.1	19
92	Development of nitrogen-decorated carbon dots (NCDs) thermally conductive film for windows application. Carbon Letters, 2022, 32, 1065-1072.	3.3	18
93	Chemical Synthesis of ZnO Nanocrystals. IEEE Nanotechnology Magazine, 2007, 6, 497-503.	1.1	17
94	NaYF₄:Yb,Erâ€“MoS₂: from synthesis and surface ligand stripping to negative infrared photoresponse. Chemical Communications, 2015, 51, 9030-9033.	2.2	17
95	Development of High-Performance Bismuth Sulfide Nanobelts Humidity Sensor and Effect of Humid Environment on its Transport Properties. ACS Omega, 2019, 4, 2030-2039.	1.6	17
96	The mechanism of graphene oxide as a growth template for complete reduced graphene oxide coverage on an SiO2substrate. Journal of Materials Chemistry C, 2014, 2, 109-114.	2.7	16
97	Interfacial characteristics and wear performances of iron matrix composites reinforced with zirconia-toughened alumina ceramic particles. Ceramics International, 2022, 48, 1293-1305.	2.3	16
98	Electronâ^'Phonon Interactions in Ce3+-Doped Yttrium Aluminum Garnet Nanophosphors. Journal of Physical Chemistry B, 2008, 112, 10830-10832.	1.2	15
99	Tape Casting of High Dielectric Ceramic Substrates for Microelectronics Packaging. Journal of Materials Engineering and Performance, 1999, 8, 469-472.	1.2	14
100	Non-Catalytic Facile Synthesis of Superhard Phase of Boron Carbide (B₁₃C₂) Nanoflakes and Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 596-603.	0.9	13
101	Electrodeposition of amorphous WO₃on SnO₂â€“TiO₂inverse opal nano-framework for highly transparent, effective and stable electrochromic smart window. RSC Advances, 2019, 9, 16730-16737.	1.7	13
102	Blood-Based Biomarkers Are Associated with Different Ischemic Stroke Mechanisms and Enable Rapid Classification between Cardioembolic and Atherosclerosis Etiologies. Diagnostics, 2020, 10, 804.	1.3	13
103	A novel non-catalytic synthesis method for zero- and two-dimensional B13C2nanostructures. CrystEngComm, 2011, 13, 1299-1303.	1.3	12
104	Electrochemical impedimetric detection of stroke biomarker NT-proBNP using disposable screen-printed gold electrodes. The EuroBiotech Journal, 2017, 1, 165-176.	0.5	12
105	Electrophoretic deposition of reduced graphene oxide thin films for reduction of cross-sectional heat diffusion in glass windows. Journal of Science: Advanced Materials and Devices, 2019, 4, 252-259.	1.5	12
106	Atomic layer deposition of rhodium and palladium thin film using low-concentration ozone. RSC Advances, 2021, 11, 22773-22779.	1.7	12
107	Effect of chromium on erosion-corrosion properties of ZrO2-Al2O3 particles reinforced Fe-based composites in artificial seawater slurries. Corrosion Science, 2022, 198, 110138.	3.0	12
108	Noble metal alloy thin films by atomic layer deposition and rapid Joule heating. Scientific Reports, 2022, 12, 2522.	1.6	12

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109	Electrospraying of water in the cone-jet mode in air at atmospheric pressure. International Journal of Mass Spectrometry, 2008, 272, 199-203.	0.7	11
110	Optical and Electrical Properties of Wurtzite Copper Indium Sulfide Nanoflakes. Materials Express, 2012, 2, 344-350.	0.2	11
111	B-Type Natriuretic Peptide as a Significant Brain Biomarker for Stroke Triaging Using a Bedside Point-of-Care Monitoring Biosensor. Biosensors, 2020, 10, 107.	2.3	11
112	Porous AlN ceramic substrates by reaction sintering. Journal of Materials Processing Technology, 2003, 140, 413-419.	3.1	10
113	One stone kills four birds: a novel diazaperinone 12H-pyrazino[2â€²,3â€²:3,4]pyrrolo[1,2-a]perimidin-12-one recognizes four different metal ions. Tetrahedron Letters, 2012, 53, 6044-6047.	0.7	10
114	Development of a chemiluminescent DNA fibre optic genosensor to Hepatitis A Virus (HAV). Talanta, 2017, 174, 401-408.	2.9	10
115	Supercompressible Coaxial Carbon Nanotube@Graphene Arrays with Invariant Viscoelasticity over â˜'100 to 500 Â°C in Ambient Air. ACS Applied Materials & Interfaces, 2018, 10, 9688-9695.	4.0	10
116	Inorganic Photonic Microspheres with Localized Concentric Ordering for Deep Pattern Encoding and Triple Sensory Microsensor. Small, 2020, 16, e2003638.	5.2	10
117	Ndâ€“Nb Co-doped SnO₂/Î±-WO₃ Electrochromic Materials: Enhanced Stability and Switching Properties. ACS Omega, 2021, 6, 26251-26261.	1.6	10
118	Cyclic formation of boron suboxide crystallites into star-shaped nanoplates. Scripta Materialia, 2015, 99, 69-72.	2.6	9
119	Additiveâ€Free Electrophoretic Deposition of Graphene Quantum Dots Thin Films. Chemistry - A European Journal, 2019, 25, 16573-16581.	1.7	9
120	Self-Assembled VO₂ Mesh Film-Based Resistance Switches with High Transparency and Abrupt ON/OFF Ratio. ACS Omega, 2019, 4, 19635-19640.	1.6	9
121	Membrane type comparison and modification to modulate sample flow in paper diagnostics. Biochemical Engineering Journal, 2020, 155, 107483.	1.8	9
122	Twin step synthesis of mullite and mulliteâ€“zirconia composite in low power transferred arc plasma (TAP) torch. Materials Characterization, 2011, 62, 419-424.	1.9	8
123	Reporter-encapsulated liposomes on graphene field effect transistors for signal enhanced detection of physiological enzymes. Physical Chemistry Chemical Physics, 2015, 17, 3451-3456.	1.3	8
124	Novel felt pseudocapacitor based on carbon nanotube/metal oxides. Journal of Materials Science, 2015, 50, 6578-6585.	1.7	8
125	Novel moisture management test of polyethylene terephthalate and nylon fabric under stretching and surface patterning. Textile Reseach Journal, 2018, 88, 69-79.	1.1	8
126	Development of Translucent Oxyapatite Ceramics by Spark Plasma Sintering. Journal of the American Ceramic Society, 2010, 93, 3060-3063.	1.9	7

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127	Physical and electrical properties of bilayer CeO2/TiO2 gate dielectric stack. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 210, 57-63.	1.7	7
128	Blood biomarkers to detect new-onset atrial fibrillation and cardioembolism in ischemic stroke patients. Heart Rhythm, 2021, 18, 855-861.	0.3	7
129	Correlations Between Precursor Molecular Weight and Dynamic Mechanical Properties of Polyborosiloxane (PBS). Macromolecular Materials and Engineering, 2021, 306, 2100360.	1.7	7
130	Atomic layer deposition of palladium thin film from palladium (II) hexafluoroacetylacetonate and ozone reactant. Thin Solid Films, 2021, 738, 138955.	0.8	7
131	Nanoblast Synthesis and Consolidation of (La_{0.8}Sr_{0.2})(Ga_{0.9}Mg_{0.1})O<SUB Under Spark Plasma Sintering Conditions. Journal of Nanoscience and Nanotechnology, 2009, 9, 141-149.	0.9	6
132	Cubic nanoassembly of garnet nanocrystals. CrystEngComm, 2009, 11, 1880.	1.3	6
133	Singleâ€Crystalline InVO‹sub›4‹/sub› Nanotubes by Selfâ€Templateâ€Directed Fabrication. Journal of the American Ceramic Society, 2010, 93, 596-600.	1.9	6
134	Improved synthesis and growth of graphene oxide for field effect transistor biosensors. Biomedical Microdevices, 2016, 18, 61.	1.4	6
135	Waferâ€Scale Vertically Aligned Carbon Nanotubes Locked by In Situ Hydrogelation toward Strengthening Static and Dynamic Compressive Responses. Macromolecular Materials and Engineering, 2018, 303, 1800024.	1.7	6
136	Development of Core-Shell Rh@Pt and Rh@Ir Nanoparticle Thin Film Using Atomic Layer Deposition for HER Electrocatalysis Applications. Processes, 2022, 10, 1008.	1.3	6
137	Strategy of the Development of Cr-tolerant Cathodes of Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 263-269.	0.3	5
138	Solvent and plasma gas influence on the synthesis of Y2O3 nanoparticles by suspension plasma spraying. Journal of Materials Research, 2007, 22, 1306-1313.	1.2	5
139	RF Plasma Synthesis of Boron Carbide Nanoparticles. Solid State Phenomena, 0, 136, 23-38.	0.3	5
140	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se)‹sub›2‹/sub› solar cell. RSC Advances, 2014, 4, 58372-58376.	1.7	5
141	Photoinducible silane diazirine as an effective crosslinker in the construction of a chemiluminescent immunosensor targeting a model E. coli analyte. Sensors and Actuators B: Chemical, 2018, 256, 234-242.	4.0	5
142	Fabrication and characterization of graphene quantum dots thin film for reducing cross-sectional heat transfer through smart window. Materials Research Bulletin, 2020, 127, 110861.	2.7	5
143	Carbon nanomaterials as additives to ‹scp›e‹/scp›thylene vinyl acetate copolymer foams for sport footwear applications. Polymers for Advanced Technologies, 2022, 33, 863-869.	1.6	5
144	Fabrication and wear property of NiCo coated ZrO2â€“Al2O3 ceramic particles reinforced high manganese steel-based composites. Wear, 2022, 492-493, 204235.	1.5	5

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145	Synthesis of Al2O3/AlN composite powders by plasma processed Al2O3with various additives. Journal of Materials Research, 2004, 19, 1356-1363.	1.2	4
146	Chemical gelation of cerium (III)-doped yttrium aluminium oxide spherical particles. Journal of Materials Research, 2006, 21, 2510-2515.	1.2	4
147	High index, reactive facet-controlled synthesis of one-dimensional single crystalline rare earth hydroxide nanobelts. CrystEngComm, 2011, 13, 5367.	1.3	4
148	Inverse Opals: Quantum-Dot-Sensitized TiO2 Inverse Opals for Photoelectrochemical Hydrogen Generation (Small 1/2012). Small, 2012, 8, 36-36.	5.2	4
149	Layered Nanomaterials: Fabrication of Single- and Multilayer MoS2 Film-Based Field-Effect Transistors for Sensing NO at Room Temperature (Small 1/2012). Small, 2012, 8, 2-2.	5.2	4
150	Atomic Layer Deposition of Inverse Opals for Solar Cell Applications. Advanced Materials Research, 2013, 789, 3-7.	0.3	4
151	Characterization of Mullite-Zirconia Composite Processed by Non-Transferred and Transferred Arc Plasma. Plasma Science and Technology, 2009, 11, 200-205.	0.7	3
152	Mono-distributed single-walled carbon nanotube channel in field effect transistors (FETs) using electrostatic atomization deposition. Journal of Colloid and Interface Science, 2009, 338, 266-269.	5.0	3
153	Highly ordered nano-scale structure in nacre of green-lipped mussel Perna canaliculus. CrystEngComm, 2016, 18, 7501-7505.	1.3	3
154	Humidity and selective oxygen detection by Ag2S nanoparticles gas sensor. Journal of Materials Science: Materials in Electronics, 2019, 30, 10117-10127.	1.1	3
155	Properties of Porous AlN Multilayered Ceramic Sandwich Substrates. Journal of Materials Research, 2002, 17, 1061-1068.	1.2	2
156	Porous reaction-sintered AlN tapes for high-performance microelectronics application. Journal of Materials Research, 2002, 17, 306-314.	1.2	2
157	Adsorption and Reaction Mechanisms of Direct Palladium Synthesis by ALD Using Pd(hfac)2 and Ozone on Si (100) Surface. Processes, 2021, 9, 2246.	1.3	2
158	Phase characterization of Smâ€“Lu mixed oxide powders prepared by sintering and radio frequency plasma spraying. Zeitschrift FÃ¼r Kristallographie, 2009, 224, 198-206.	1.1	1
159	Bio-inspired structured boron carbide-boron nitride composite by reactive spark plasma sintering. Virtual and Physical Prototyping, 2013, 8, 253-258.	5.3	1
160	Improved mechanical and thermomechanical properties of alumina substrate via iron doping. Scripta Materialia, 2013, 68, 869-872.	2.6	1
161	Electrochromic Materials: Efficient Near Infrared Modulation with High Visible Transparency Using SnO 2 â€“WO 3 Nanostructure for Advanced Smart Windows (Advanced Optical Materials 8/2019). Advanced Optical Materials, 2019, 7, 1970031.	3.6	1
162	A Source of Error in Photoanode Evaluation. Joule, 2019, 3, 305-310.	11.7	1

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163	Ordered Array of Metal Particles on Semishell Separated with Ultrathin Oxide: Fabrication and SERS Properties. Coatings, 2019, 9, 20.	1.2	1
164	Elucidation of abrasive wear and slurry erosion behavior of Fe matrix composites reinforced with metallic coating modified ZTAP ceramics. Composite Interfaces, 2022, 29, 877-897.	1.3	1
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