

Wai Kian Tan

List of Publications by Year in descending order

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189
papers

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citations

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all docs

193
docs citations

193
times ranked

3522
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 570-619.	12.3	68
2	Anodized TiO ₂ nanotubes using Ti wire in fluorinated ethylene glycol with air bubbles for removal of methylene blue dye. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 173-188.	2.9	4
3	Laser processing of graphene and related materials for energy storage: State of the art and future prospects. <i>Progress in Energy and Combustion Science</i> , 2022, 91, 100981.	31.2	124
4	Synthesis of an Al ₃ -doped Li ₂ S positive electrode with superior performance in all-solid-state batteries. <i>Materials Advances</i> , 2022, 3, 2488-2494.	5.4	11
5	Li ₄ SiO ₄ -Doped-Li ₇ P ₂ S ₈ solid electrolytes with high lithium stability synthesised using liquid-phase shaking. <i>RSC Advances</i> , 2022, 12, 7469-7474.	3.6	2
6	Mechanical Properties of Sulfide-Type Solid Electrolytes Analyzed by Indentation Methods. <i>ACS Applied Energy Materials</i> , 2022, 5, 2349-2355.	5.1	19
7	Mechanical properties of alumina matrix composite reinforced with carbon nanofibers affected by small interfacial sliding shear stress. <i>Ceramics International</i> , 2022, 48, 8466-8472.	4.8	7
8	Preparation of Ca ₂ -Doped Li ₇ P ₃ S ₁₁ by Liquid-Phase Synthesis and Its Application in an All-Solid-State Battery with a Graphite Anode. <i>Energy & Fuels</i> , 2022, 36, 4577-4584.	5.1	3
9	Transparent conductive polymer composites obtained via electrostatically assembled carbon nanotubes/poly (methyl methacrylate) composite particles. <i>Advanced Powder Technology</i> , 2022, 33, 103528.	4.1	8
10	An overview of recent progress in nanostructured carbon-based supercapacitor electrodes: From zero to bi-dimensional materials. <i>Carbon</i> , 2022, 193, 298-338.	10.3	168
11	Photoreduction of Cr(VI) in wastewater by anodic nanoporous Nb ₂ O ₅ formed at high anodizing voltage and electrolyte temperature. <i>Environmental Science and Pollution Research</i> , 2022, 29, 60600-60615.	5.3	1
12	Electrochemical deposition of uniform and porous Co-Ni layered double hydroxide nanosheets on nickel foam for supercapacitor electrode with improved electrochemical efficiency. <i>Journal of Energy Storage</i> , 2022, 50, 104638.	8.1	59
13	High Ionic Conductivity with Improved Lithium Stability of CaS- and Ca ₂ -Doped Li ₇ P ₃ S ₁₁ Solid Electrolytes Synthesized by Liquid-Phase Synthesis. <i>ACS Omega</i> , 2022, 7, 16561-16567.	3.5	3
14	Enhanced photocatalytic and antimicrobial performance of a multifunctional Cu-loaded nanocomposite under UV light: theoretical and experimental study. <i>Nanoscale</i> , 2022, 14, 8306-8317.	5.6	15
15	Ordered arrays of electrostatically assembled SiO ₂ -SiO ₂ composite particles by electrophoresis-induced stimulation. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 104, 548-557.	2.4	1
16	Controlled formation of carbon nanotubes incorporated ceramic composite granules by electrostatic integrated nano-assembly. <i>Nanoscale</i> , 2022, 14, 9669-9674.	5.6	4
17	Cutting-edge development in waste-recycled nanomaterials for energy storage and conversion applications. <i>Nanotechnology Reviews</i> , 2022, 11, 2215-2294.	5.8	13
18	Formation of self-organized ZrO ₂ -TiO ₂ and ZrTiO ₄ -TiO ₂ nanotube arrays by anodization of Ti-40Zr foil for Cr(VI) removal. <i>Journal of Materials Research and Technology</i> , 2022, 19, 2991-3003.	5.8	5

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19	Anodic film on Ti: Nanotubes formation and application for Cr(VI) and Cd(II) removal. <i>Materials Today: Proceedings</i> , 2022, , .	1.8	1
20	Nanocomposite matrix conjugated with carbon nanomaterials for photocatalytic wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 410, 124657.	12.4	66
21	Morphology and optical properties of ZnO nanorods coupled with metal oxides of various bandgaps by photo-oxidation. <i>Journal of Luminescence</i> , 2021, 229, 117649.	3.1	18
22	Nanomaterial Fabrication through the Modification of Solâ€“Gel Derived Coatings. <i>Nanomaterials</i> , 2021, 11, 181.	4.1	36
23	High Ionic Conductivity of Liquid-Phase-Synthesized Li ₃ PS ₄ Solid Electrolyte, Comparable to That Obtained via Ball Milling. <i>ACS Applied Energy Materials</i> , 2021, 4, 2275-2281.	5.1	33
24	International Industrial Internship: A Case Study from a Japanese Engineering University Perspective. <i>Education Sciences</i> , 2021, 11, 156.	2.6	7
25	Hexavalent Chromium Removal via Photoreduction by Sunlight on Titaniumâ€“Dioxide Nanotubes Formed by Anodization with a Fluorinated Glycerolâ€“Water Electrolyte. <i>Catalysts</i> , 2021, 11, 376.	3.5	16
26	Preparation of Li ₃ PS ₄ â€“Li ₃ PO ₄ Solid Electrolytes by Liquid-Phase Shaking for All-Solid-State Batteries. <i>Electronic Materials</i> , 2021, 2, 39-48.	1.9	7
27	Electrostatically assembled Siâ€“Al ₂ O ₃ composite particles for direct selective laser sintering. <i>Advanced Powder Technology</i> , 2021, 32, 2074-2084.	4.1	8
28	Recent progress on carbon-based composite materials for microwave electromagnetic interference shielding. <i>Carbon</i> , 2021, 177, 304-331.	10.3	239
29	Water resistance and biodegradation properties of conventionally-heated and microwave-cured cross-linked cellulose nanocrystal/chitosan composite films. <i>Polymer Degradation and Stability</i> , 2021, 188, 109563.	5.8	25
30	Structural, Thermal and Electrochemical studies of Sm substituted CrFeO ₃ Nanoâ€“Pervoskites. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159420.	5.5	5
31	Development of liquid-phase fabrication of nanotube array-based multiferroic nanocomposite film. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159219.	5.5	2
32	Synthesis of MRGO Nanocomposites as a Potential Photocatalytic Demulsifier for Crude Oil-in-Water Emulsion. <i>Journal of Composites Science</i> , 2021, 5, 174.	3.0	6
33	Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor. <i>Journal of Energy Storage</i> , 2021, 40, 102724.	8.1	137
34	Phase transformation and size control of Mg _{0.1} Sr _{0.1} Mn _{0.8} Fe ₂ O ₄ nanocrystals through variation of annealing time. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168238.	2.3	0
35	Nanoporous anodic Nb ₂ O ₅ with pore-in-pore structure formation and its application for the photoreduction of Cr(VI). <i>Chemosphere</i> , 2021, 283, 131231.	8.2	13
36	Recent advances in waste-recycled nanomaterials for biomedical applications: Waste-to-wealth. <i>Nanotechnology Reviews</i> , 2021, 10, 1662-1739.	5.8	50

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37	Formation of Dense and High-Aspect-Ratio Iron Oxide Nanowires by Water Vapor-Assisted Thermal Oxidation and Their Cr(VI) Adsorption Properties. ACS Omega, 2021, 6, 28203-28214.	3.5	3
38	Synthesis of rutile TiO ₂ nanowires by thermal oxidation of titanium in the presence of KOH and their ability to photoreduce Cr(VI) ions. Journal of Alloys and Compounds, 2020, 812, 152094.	5.5	30
39	Microwave-assisted synthesis of Mn ₃ O ₄ -Fe ₂ O ₃ /Fe ₃ O ₄ @rGO ternary hybrids and electrochemical performance for supercapacitor electrode. Diamond and Related Materials, 2020, 101, 107622.	3.9	102
40	Incorporation of titanium pyrophosphate in polybenzimidazole membrane for medium temperature dry PEFC application. Solid State Ionics, 2020, 344, 115140.	2.7	16
41	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. ACS Omega, 2020, 5, 26287-26294.	3.5	22
42	Formation of grassy TiO ₂ nanotube thin film by anodisation in peroxide electrolyte for Cr(VI) removal under ultraviolet radiation. Nanotechnology, 2020, 31, 435605.	2.6	10
43	Carbon-dot-loaded Co _x Ni _{1-x} Fe ₂ O ₄ ; x = 0.9/SiO ₂ /TiO ₂ nanocomposite with enhanced photocatalytic and antimicrobial potential: An engineered nanocomposite for wastewater treatment. Scientific Reports, 2020, 10, 11534.	3.3	48
44	Fe ₃ O ₄ -embedded rGO composites as anode for rechargeable FeO _x -air batteries. Materials Today Communications, 2020, 25, 101540.	1.9	18
45	Formation of Fe-embedded graphitic carbon network composites as anode materials for rechargeable Fe-air batteries. Energy Storage, 2020, 2, e196.	4.3	4
46	Electrostatic Assembly Technique for Novel Composites Fabrication. Journal of Composites Science, 2020, 4, 155.	3.0	15
47	Comparison of ZrO ₂ , TiO ₂ , and Fe-Fe ₂ O ₃ nanotube arrays on Cr(VI) photoreduction fabricated by anodization of Zr, Ti, and Fe foils. Materials Research Express, 2020, 7, 055013.	1.6	14
48	Heteroatom doped graphene engineering for energy storage and conversion. Materials Today, 2020, 39, 47-65.	14.2	400
49	Effect of TiO ₂ sol on the conversion efficiency of TiO ₂ based dye-sensitized solar cell. Journal of Sol-Gel Science and Technology, 2020, 95, 439-446.	2.4	8
50	Oxide nanotubes formation by anodic process and their application in photochemical reactions for heavy metal removal. , 2020, , 277-303.		1
51	Metal oxide for heavy metal detection and removal. , 2020, , 299-332.		3
52	Comparative study on the properties of cross-linked cellulose nanocrystals/chitosan film composites with conventional heating and microwave curing. Journal of Applied Polymer Science, 2020, 137, 49578.	2.6	6
53	Sulfur-Carbon Nano Fiber Composite Solid Electrolyte for All-Solid-State Li-S Batteries. ACS Applied Energy Materials, 2020, 3, 1569-1573.	5.1	29
54	Magnetically recoverable magnetite-reduced graphene oxide as a demulsifier for surfactant stabilized crude oil-in-water emulsion. PLoS ONE, 2020, 15, e0232490.	2.5	15

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55	Preparation and Characterization of Stable and Active Pt@TiO ₂ Core-Shell Nanoparticles as Electrocatalyst for Application in PEMFCs. ACS Applied Energy Materials, 2020, 3, 3269-3281.	5.1	15
56	Superior performance of Ni(OH) ₂ -ErGO@ NF electrode materials as pseudocapacitance using electrochemical deposition via two simple successive steps. Journal of Energy Storage, 2020, 30, 101485.	8.1	49
57	Improved green body strength using PMMA-Al ₂ O ₃ composite particles fabricated via electrostatic assembly. Nano Express, 2020, 1, 030001.	2.4	4
58	Facile Fabrication of Plasmonic Enhanced Noble-Metal-Decorated ZnO Nanowire Arrays for Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2020, 20, 359-366.	0.9	9
59	Formation of porous Al ₂ O ₃ -SiO ₂ composite ceramics by electrostatic assembly. Journal of the Ceramic Society of Japan, 2020, 128, 605-610.	1.1	7
60	Design of Heat-Conductive hBN-PMMA Composites by Electrostatic Nano-Assembly. Nanomaterials, 2020, 10, 134.	4.1	12
61	Liquid Phase Synthesis and Morphological Observation of BaTiO ₃ -CoFe ₂ O ₄ Nanocomposite Films. Journal of Nanoscience and Nanotechnology, 2020, 20, 510-515.	0.9	0
62	Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries. Progress in Energy and Combustion Science, 2019, 75, 100786.	31.2	379
63	A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives. Nano Research, 2019, 12, 2655-2694.	10.4	283
64	Nanotube array-based barium titanate-cobalt ferrite composite film for affordable magnetoelectric multiferroics. Journal of Materials Chemistry C, 2019, 7, 10066-10072.	5.5	19
65	Effect of mixed alkali metal ions in highly proton conductive K/Cs-hydrogen sulfate-phosphotungstic acid composites prepared by mechanical milling. Solid State Ionics, 2019, 340, 115022.	2.7	4
66	CHS-WSiA doped hexafluoropropylidene-containing polybenzimidazole composite membranes for medium temperature dry fuel cells. International Journal of Hydrogen Energy, 2019, 44, 32201-32209.	7.1	14
67	Controlled microstructure and mechanical properties of Al ₂ O ₃ -based nanocarbon composites fabricated by electrostatic assembly method. Nanoscale Research Letters, 2019, 14, 245.	5.7	12
68	Anodised porous Nb ₂ O ₅ for photoreduction of Cr(VI). Materials Today: Proceedings, 2019, 17, 1033-1039.	1.8	9
69	Effect of ZnO Seed Layer on the Growth of ZnO Nanorods on Silicon Substrate. Materials Today: Proceedings, 2019, 17, 553-559.	1.8	14
70	Facile Fabrication of rGO/Rutile TiO ₂ Nanowires as Photocatalyst for Cr(VI) Reduction. Materials Today: Proceedings, 2019, 17, 1143-1151.	1.8	13
71	PMMA-ITO Composite Formation via Electrostatic Assembly Method for Infra-Red Filtering. Nanomaterials, 2019, 9, 886.	4.1	20
72	Enhancement of interfacial property by novel solid ionomer CsHSO ₄ -H ₄ SiW ₁₂ O ₄₀ for the three-phase interface of a medium-temperature anhydrous fuel cell. Materials Letters, 2019, 253, 201-204.	2.6	7

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73	Facile formation of Fe ₃ O ₄ -particles decorated carbon paper and its application for all-solid-state rechargeable Fe-air battery. Applied Surface Science, 2019, 486, 257-264.	6.1	17
74	Rapid Nucleation of Reduced Graphene Oxide-Supported Palladium Electrocatalysts for Methanol Oxidation Reaction. Journal of Nanoscience and Nanotechnology, 2019, 19, 7236-7243.	0.9	3
75	Fabrication of an all-solid-state Zn-air battery using electroplated Zn on carbon paper and KOH-ZrO ₂ solid electrolyte. Applied Surface Science, 2019, 487, 343-348.	6.1	21
76	Facile and fast microwave-assisted formation of reduced graphene oxide-wrapped manganese cobaltite ternary hybrids as improved supercapacitor electrode material. Applied Surface Science, 2019, 481, 296-306.	6.1	86
77	Anhydrous proton conductive xCHS-(1-x)WSiA composites prepared via liquid-phase shaking. Solid State Ionics, 2019, 337, 1-6.	2.7	3
78	Investigation of the anchor layer formation on different substrates and its feasibility for optical properties control by aerosol deposition. Applied Surface Science, 2019, 483, 212-218.	6.1	13
79	Preparation of Li ₇ P ₂ S ₈ I Solid Electrolyte and Its Application in All-Solid-State Lithium-Ion Batteries with Graphite Anode. Electronic Materials Letters, 2019, 15, 409-414.	2.2	31
80	Nucleation and growth controlled reduced graphene oxide-supported palladium electrocatalysts for methanol oxidation reaction. Nanomaterials and Nanotechnology, 2019, 9, 184798041982717.	3.0	1
81	Effects of cesium-substituted silicotungstic acid doped with polybenzimidazole membrane for the application of medium temperature polymer electrolyte fuel cells. E3S Web of Conferences, 2019, 83, 01008.	0.5	4
82	PM-15 ZnO nanoparticles with fluorescent properties suitable for modification on protein surfaces.. Microscopy (Oxford, England), 2019, 68, i42-i42.	1.5	0
83	Fabrication of Carbon-decorated Al ₂ O ₃ Composite Powders using Cellulose Nanofiber for Selective Laser Sintering. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 168-173.	0.2	7
84	Novel palladium-guanine-reduced graphene oxide nanocomposite as efficient electrocatalyst for methanol oxidation reaction. Materials Research Bulletin, 2019, 112, 213-220.	5.2	14
85	Micro- and Nano-assembly of Composite Particles by Electrostatic Adsorption. Nanoscale Research Letters, 2019, 14, 297.	5.7	25
86	Electrical and Thermal Properties of PMMA/h-BN Composite Material Produced by Electrostatic Adsorption Method. IEEJ Transactions on Fundamentals and Materials, 2019, 139, 60-65.	0.2	4
87	Preparation of BaTiO ₃ Nanotube Arrays, CoFe ₂ O ₄ Nanoparticles and Their Composites. ECS Transactions, 2018, 82, 51-57.	0.5	1
88	Effects of multi-sized and -shaped Ag@TiO ₂ nanoparticles on the performance of plasmonic dye-sensitized solar cells. Journal of the Ceramic Society of Japan, 2018, 126, 139-151.	1.1	8
89	Hierarchical Porous Fe ₂ O ₃ Formation by Thermal Oxidation of Iron as Catalyst for Cr(VI) Reduction. Journal of Physics: Conference Series, 2018, 1082, 012044.	0.4	2
90	Tailoring Parameters to Produce Nanowires on Metal Surface via Surface Oxidation Process. Journal of Physics: Conference Series, 2018, 1082, 012052.	0.4	3

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91	Synthesis of TiO ₂ Nanotubes Decorated with Ag Nanoparticles (TNTs/AgNPs) For Visible Light Degradation of Methylene Blue. Journal of Physics: Conference Series, 2018, 1082, 012105.	0.4	3
92	Cell performance enhancement with titania-doped polybenzimidazole based composite membrane in intermediate temperature fuel cell under anhydrous condition. Journal of the Ceramic Society of Japan, 2018, 126, 789-793.	1.1	11
93	Sol-gel template synthesis of BaTiO ₃ films with nano-periodic structures. Materials Letters, 2018, 227, 120-123.	2.6	7
94	Rapid TiO ₂ Nanotubes Formation in Aged Electrolyte and Their Application as Photocatalysts for Cr(VI) Reduction Under Visible Light. IEEE Nanotechnology Magazine, 2018, 17, 1106-1110.	2.0	8
95	Cr(VI) removal on visible light active TiO ₂ nanotube arrays. AIP Conference Proceedings, 2018, , .	0.4	5
96	Multiferroic nanocomposite fabrication via liquid phase using anodic alumina template. Science and Technology of Advanced Materials, 2018, 19, 535-542.	6.1	5
97	Ag@TiO ₂ Nanowires-Loaded Dye-Sensitized Solar Cells and Their Effect on the Various Performance Parameters of DSSCs. Journal of the Electrochemical Society, 2018, 165, H500-H509.	2.9	7
98	Sunlight activated anodic freestanding ZrO ₂ nanotube arrays for Cr(VI) photoreduction. Nanotechnology, 2018, 29, 375701.	2.6	21
99	One-Dimensional γ -Fe ₂ O ₃ Nanowires Formation by High Temperature Oxidation of Iron and Their Potential Use to Remove Cr(VI) Ions. , 2018, , 115-142.		1
100	Ag nanoparticle-filled TiO ₂ nanotube arrays prepared by anodization and electrophoretic deposition for dye-sensitized solar cells. Nanotechnology, 2017, 28, 135207.	2.6	25
101	Synthesis of plate-like Li ₃ PS ₄ solid electrolyte via liquid-phase shaking for all-solid-state lithium batteries. Ionics, 2017, 23, 2061-2067.	2.4	96
102	TiO ₂ nanotube arrays formation in fluoride/ethylene glycol electrolyte containing LiOH or KOH as photoanode for dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 343, 33-39.	3.9	23
103	Preparation of thermally and chemically robust superhydrophobic coating from liquid phase deposition and low voltage reversible electrowetting. Thin Solid Films, 2017, 636, 273-282.	1.8	12
104	Development of Iron-Based Rechargeable Batteries with Sintered Porous Iron Electrodes. ECS Transactions, 2017, 75, 111-116.	0.5	5
105	Photocatalytic performance of freestanding tetragonal zirconia nanotubes formed in H ₂ O ₂ /NH ₄ F/ethylene glycol electrolyte by anodisation of zirconium. Nanotechnology, 2017, 28, 155604.	2.6	12
106	Effect of NaOH Concentration on the Formation of TiO ₂ Nanotube Arrays by Anodic Oxidation Process for Photoelectrochemical Cell. Solid State Phenomena, 2017, 264, 152-155.	0.3	3
107	Characterizations and photoelectrochemical properties of Fe ₂ O ₃ and ZrO ₂ nanotubes formed by anodic oxidation process. AIP Conference Proceedings, 2017, , .	0.4	0
108	Fast synthesis of Li ₂ Sâ€“P ₂ S ₅ â€“LiI solid electrolyte precursors. Inorganic Chemistry Frontiers, 2017, 4, 1660-1664.	6.0	36

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109	Formation of anodic TiO ₂ nanotube arrays in NaOH added fluoride-ethylene glycol electrolyte for dye-sensitized solar cells. AIP Conference Proceedings, 2017, , .	0.4	0
110	Systematic characterization of the effect of Ag@TiO ₂ nanoparticles on the performance of plasmonic dye-sensitized solar cells. Scientific Reports, 2017, 7, 15690.	3.3	54
111	Controlled facile fabrication of plasmonic enhanced Au-decorated ZnO nanowire arrays dye-sensitized solar cells. Materials Today Communications, 2017, 13, 354-358.	1.9	10
112	Electrochemical Performance of Sintered Porous Negative Electrodes Fabricated with Atomized Powders for Iron-Based Alkaline Rechargeable Batteries. Journal of the Electrochemical Society, 2017, 164, A2049-A2055.	2.9	14
113	Preface: 3rd IGNITE-2016. AIP Conference Proceedings, 2017, , .	0.4	0
114	Influence of Orientation of Flaky Boron Nitride on Electrical and Thermal Properties of Polymethylmethacrylate / Boron Nitride Electrical Insulating Composite Material Produced by Electrostatic Adsorption Method. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 202-207.	0.2	1
115	Formation and photoelectrochemical properties of TiO ₂ nanotube arrays in fluorinated organic electrolyte. Journal of Mechanical Engineering and Sciences, 2017, 11, 3129-3136.	0.6	1
116	Formation of TiO ₂ nanotube arrays in KOH added fluoride-ethylene glycol (EG) electrolyte and its photoelectrochemical response. AIP Conference Proceedings, 2016, , .	0.4	1
117	Effect of KOH added to ethylene glycol electrolyte on the self-organization of anodic ZrO ₂ nanotubes. AIP Conference Proceedings, 2016, , .	0.4	2
118	Formation of TiO ₂ nanotube arrays by anodic oxidation in LiOH added ethylene glycol electrolyte and the effect of thermal annealing on the photoelectrochemical properties. AIP Conference Proceedings, 2016, , .	0.4	1
119	Anodic Ag/TiO ₂ nanotube array formation in NaOH/fluoride/ethylene glycol electrolyte as a photoanode for dye-sensitized solar cells. Nanotechnology, 2016, 27, 355605.	2.6	18
120	Reversible change of diffraction efficiency in Cl-containing 3-glycidoxypropyl silsesquioxane films co-doped with Ag and Cu. Journal of the Ceramic Society of Japan, 2016, 124, 150-154.	1.1	3
121	Preparation of Li ₃ PS ₄ Solid Electrolyte by Liquid-Phase Shaking Using Organic Solvents with Carbonyl Group as Complex Forming Medium. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 976-980.	0.2	15
122	Development of Novel Functional Composite Materials by Nano-Assembly Technique of Integrated Composite Powders. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 311-316.	0.2	2
123	The Assessment of Cr(VI) Removal by Iron Oxide Nanosheets and Nanowires Synthesized by Thermal Oxidation of Iron in Water Vapour. Procedia Chemistry, 2016, 19, 586-593.	0.7	15
124	Rapid nanosheets and nanowires formation by thermal oxidation of iron in water vapour and their applications as Cr(VI) adsorbent. Applied Surface Science, 2016, 380, 172-177.	6.1	19
125	Production of Thermal Conductive PMMA/BN Electric Insulating Composite Material using Electrostatic Adsorption Method. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 186-192.	0.2	2
126	Ag nanoparticle-deposited TiO ₂ nanotube arrays for electrodes of Dye-sensitized solar cells. Nanoscale Research Letters, 2015, 10, 219.	5.7	33

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127	Three modes of high-efficient photocatalysis using composites of TiO ₂ -nanocrystallite-containing mesoporous SiO ₂ and Au nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 748-755.	2.4	14
128	Blue-emitting photoluminescence of rod-like and needle-like ZnO nanostructures formed by hot-water treatment of sol-gel derived coatings. <i>Journal of Luminescence</i> , 2015, 158, 44-49.	3.1	14
129	Hard template synthesis of metal nanowires. <i>Frontiers in Chemistry</i> , 2014, 2, 104.	3.6	28
130	Formation of Two-Dimensional ZnO Nanosheets by Rapid Thermal Oxidation in Oxygenated Environment. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2960-2967.	0.9	2
131	Ex situ Raman mapping study of mechanism of cordierite formation from stoichiometric oxide precursors. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1009-1015.	5.7	14
132	Synthesis of ZnO nanorod-nanosheet composite via facile hydrothermal method and their photocatalytic activities under visible-light irradiation. <i>Journal of Solid State Chemistry</i> , 2014, 211, 146-153.	2.9	19
133	Synthesis of high-edge exposure MoS ₂ nano flakes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	8
134	Iron Composite Anodes for Fabricating All-Solid-State Iron-Air Rechargeable Batteries. <i>Key Engineering Materials</i> , 2014, 616, 114-119.	0.4	2
135	Preparation of hydroxide ion conductive KOH-ZrO ₂ electrolyte for all-solid state iron/air secondary battery. <i>Solid State Ionics</i> , 2014, 262, 188-191.	2.7	9
136	Preparation of hydroxide ion conductive KOH-layered double hydroxide electrolytes for an all-solid-state iron-air secondary battery. <i>Journal of Asian Ceramic Societies</i> , 2014, 2, 165-168.	2.3	16
137	Study of branched TiO ₂ nanotubes and their application to dye sensitized solar cells. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 886-888.	1.1	8
138	Proton conductive composite electrolytes in the KH ₂ PO ₄ -H ₃ PW ₁₂ O ₄₀ system for H ₂ /O ₂ fuel cell operation. <i>Applied Energy</i> , 2013, 112, 1108-1114.	10.1	6
139	Morphology-control of crystallites precipitated from ZnO gel films by applying electric field during hot-water treatment. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1232-1239.	4.0	4
140	Photoluminescence properties of rod-like Ce-doped ZnO nanostructured films formed by hot-water treatment of sol-gel derived coating. <i>Optical Materials</i> , 2013, 35, 1902-1907.	3.6	28
141	Optical properties of two-dimensional ZnO nanosheets formed by hot-water treatment of Zn foils. <i>Solid State Communications</i> , 2013, 162, 43-47.	1.9	12
142	Fabrication of well-crystallized mesoporous ZrO ₂ thin films via Pluronic P123 templated sol-gel route. <i>Ceramics International</i> , 2013, 39, S437-S440.	4.8	14
143	Enhanced dye-sensitized solar cells performance of ZnO nanorod arrays grown by low-temperature hydrothermal reaction. <i>International Journal of Energy Research</i> , 2013, 37, n/a-n/a.	4.5	12
144	Single-step growth of carbon and potassium-embedded TiO ₂ nanotube arrays for efficient photoelectrochemical hydrogen generation. <i>Electrochimica Acta</i> , 2013, 89, 585-593.	5.2	32

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145	Low-temperature crystallization of TiO ₂ nanotube arrays via hot water treatment and their photocatalytic properties under visible-light irradiation. <i>Materials Chemistry and Physics</i> , 2013, 137, 991-998.	4.0	36
146	Formation of highly crystallized ZnO nanostructures by hot-water treatment of etched Zn foils. <i>Materials Letters</i> , 2013, 91, 111-114.	2.6	32
147	Design of hierarchically meso-“macroporous tetragonal ZrO ₂ thin films with tunable thickness by spin-coating via sol-“gel template route. <i>Microporous and Mesoporous Materials</i> , 2013, 167, 198-206.	4.4	13
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