

Irma ChacÃ³n

List of Publications by Year in descending order

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papers

889
citations

1051969

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81
docs citations

81
times ranked

1230
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of titanium dioxide nanotube derived from ilmenite mineral through post-hydrothermal treatment and its photocatalytic performance. Eastern-European Journal of Enterprise Technologies, 2022, 2, 15-29.	0.3	2
2	Performance of nanocomposites TiO ₂ /rGO as compact layer in zinc chloride modified perovskite solar cell. AIP Conference Proceedings, 2021, , .	0.3	0
3	Hydro thermal synthesis and electrochemical characterization of (V ₁ /2Sb ₁ /2Sn) ₄ O ₄ and (Fe ₁ /2Sb ₁ /2Sn) ₄ O ₄ as energy storage materials. AIP Conference Proceedings, 2021, , .	0.3	2
4	Optoelectronic properties of ZnO nanorods thin films derived from chemical bath deposition with different growth times. AIP Conference Proceedings, 2020, , .	0.3	1
5	Green reduction of graphene oxide using a mixture of chocolate and coffee powder. AIP Conference Proceedings, 2020, , .	0.3	4
6	Synthesis of titanium oxysulfate from ilmenite through hydrothermal, water leaching and sulfuric acid leaching routes. AIP Conference Proceedings, 2020, , .	0.3	1
7	Enhanced Device Performance of Bulk Heterojunction (BHJ) Hybrid Solar Cells Based on Colloidal CdSe Quantum Dots (QDs) via Optimized Hexanoic Acid-Assisted Washing Treatment. Advances in Materials Science and Engineering, 2019, 2019, 1-6.	1.0	2
8	The Effect of deposition times on preparation of SnO ₂ :F conductive glass by Indonesian local stannic chloride precursors. IOP Conference Series: Materials Science and Engineering, 2019, 541, 012022.	0.3	1
9	Synthesis of TiO ₂ nanoparticles at low hydrothermal temperature and its performance for DSSC sensitized using natural dye extracted from <i>Melastoma malabathricum</i> L. seeds. International Journal of Energy Research, 2019, 43, 5959-5968.	2.2	13
10	The effect of silver nitrate addition on antibacterial properties of bone scaffold chitosan-hydroxyapatite. AIP Conference Proceedings, 2019, , .	0.3	2
11	Extraction of collagen Type-I from snakehead fish skin (<i>Channa striata</i>) and synthesis of biopolymer for wound dressing. AIP Conference Proceedings, 2019, , .	0.3	5
12	The study of zinc oxide addition into hydroxyapatite/chitosan scaffold for bone tissue engineering application. AIP Conference Proceedings, 2019, , .	0.3	7
13	Effects of annealing temperature on the electrochemical characteristics of ZnO microrods as anode materials of lithium-ion battery using chemical bath deposition. Ionics, 2019, 25, 457-466.	1.2	13
14	The influence of phosphorylation and freezing temperature on the mechanical properties of hydroxyapatite/chitosan composite as bone scaffold biomaterial. AIP Conference Proceedings, 2018, , .	0.3	3
15	Integration of Multiwalled Carbon Nanotubes in Bulk Heterojunction CdSe/PCPDTBT Hybrid Solar Cells. Materials Science Forum, 2018, 929, 150-157.	0.3	0
16	Electrical, optical and structural properties of FTO thin films fabricated by spray ultrasonic nebulizer technique from SnCl ₄ precursor. AIP Conference Proceedings, 2018, , .	0.3	11
17	The effect of hydroxyapatite addition on the mechanical properties of polyvinyl alcohol/chitosan biomaterials for bone scaffolds application. AIP Conference Proceedings, 2018, , .	0.3	5
18	Characteristics of Carbon Pyrolyzed from Table Sugar and Sucrose for Pt-less DSSC Counter Electrode. International Journal of Technology, 2018, 9, 372.	0.4	2

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19	Characteristics of Nano Rosette TiO ₂ Hydrothermally Grown on Glass Substrate at Different Reaction Time and Acid Concentration. International Journal of Technology, 2018, 9, 1196.	0.4	1
20	Nanostructural Growth Investigation of ZnO Nanorods Derived from Chemical Bath Deposition for Transparent Heater Application. International Journal of Technology, 2018, 9, 1216.	0.4	4
21	Nanostructure Properties And Dye-sensitized-solar-cell open-circuit Voltage of A TiO ₂ Aerogel and Pre-Hydrothermally Treated Xerogels. International Journal of Technology, 2018, 9, 972.	0.4	2
22	Visible Light Absorption and Photo-Sensitizing Characteristics of Natural Dye Extracted from Mangosteen Pericarps Using Different Solvents. International Journal on Advanced Science, Engineering and Information Technology, 2018, 8, 2059-2064.	0.2	0
23	Ex-situ manufacturing of SiC-doped MgB ₂ used for superconducting wire in medical device applications. AIP Conference Proceedings, 2017, , .	0.3	2
24	Investigating the weight ratio variation of alginate-hydroxyapatite composites for vertebroplasty method bone filler material. AIP Conference Proceedings, 2017, , .	0.3	0
25	Effect of freezing temperature in thermally induced phase separation method in hydroxyapatite/chitosan-based bone scaffold biomaterial. AIP Conference Proceedings, 2017, , .	0.3	3
26	Properties of carbon nanotubes-doped Fe-sheath MgB ₂ for superconducting wires. AIP Conference Proceedings, 2017, , .	0.3	3
27	The effect of substrate heating temperature upon spray pyrolysis process on the morphological and functional properties of fluorine tin oxide conducting glass. AIP Conference Proceedings, 2017, , .	0.3	5
28	Investigating the effect of various extracting solvents on the potential use of red-apple skin (Malus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	2
29	Effect of Post-Hydrothermal Treatments on the Physical Properties of ZnO Layer Derived from Chemical Bath Deposition. International Journal of Technology, 2017, 8, 651.	0.4	1
30	Fabrication of Solar Cells with TiO ₂ Nanoparticles Sensitized using Natural Dye Extracted from Mangosteen Pericarps. International Journal of Technology, 2017, 8, 1229.	0.4	7
31	The Effect of Various Precursors and Solvents on the Characteristics of Fluorine-doped Tin Oxide Conducting Glass Fabricated by Ultrasonic Spray Pyrolysis. International Journal of Technology, 2017, 8, 1336.	0.4	3
32	Innovation of Renewable Energy, CO ₂ Capture and Storage Materials for Better Applications. International Journal of Technology, 2017, 8, 1371.	0.4	0
33	Research in Thermofluid and Materials for Better Industrial Products. International Journal of Technology, 2017, 8, 1178.	0.4	0
34	Synthesis of Lithium Titanate (Li ₄ Ti ₅ O ₁₂) by Addition of Excess Lithium Carbonate (Li ₂ CO ₃) in Titanium Dioxide (TiO ₂) Xerogel. International Journal of Technology, 2016, 7, 392.	0.4	10
35	Green and Smart Materials Properties Design and Production for Sustainable Future. International Journal of Technology, 2016, 7, 362.	0.4	2
36	Optical Transmittance, Electrical Resistivity and Microstructural Characteristics of Undoped and Fluorine-doped Tin Oxide Conductive Glass Fabricated by Spray Pyrolysis Technique with Modified Ultrasonic Nebulizer. International Journal of Technology, 2016, 7, 1316.	0.4	3

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37	The Influence of Deposition Time and Substrate Temperature during the Spray Pyrolysis Process on the Electrical Resistivity and Optical Transmittance of 2 wt% Fluorine-doped Tin Oxide Conducting Glass. International Journal of Technology, 2016, 7, 1335.	0.4	3
38	Effect of Pressure in Post-Hydrothermal Treatment on the Nanostructural Characteristics of ZnO Nanoparticles. International Journal of Technology, 2016, 7, 424.	0.4	1
39	Effect of Carbon Fiber Loading in Mechanical Properties and Electrical Conductivity of Polyvinyl Alcohol Based Composites. Macromolecular Symposia, 2015, 353, 102-107.	0.4	4
40	Stress â€“ Strain Analysis on ZnO Nanostructures Synthesized via Wet Chemistry Method. Advanced Materials Research, 2015, 1112, 57-61.	0.3	3
41	The Effects of Annealing Temperature and Seed Layer on the Growth of ZnO Nanorods in a Chemical Bath Deposition Process. International Journal of Technology, 2015, 6, 565.	0.4	9
42	Synthesis of Lithium Titanate (Li ₄ Ti ₅ O ₁₂) through Hydrothermal Process by using Lithium Hydroxide (LiOH) and Titanium Dioxide (TiO ₂) Xerogel. International Journal of Technology, 2015, 6, 555.	0.4	19
43	Applications of a Green Chemistry Design, a Clean Environment, and Bioenergy to Promote the Sustainability and Added Value of Products. International Journal of Technology, 2015, 6, 1065.	0.4	2
44	Effect of Citric Acid Addition upon the Precipitation Process on the Nanostructural Characteristics of ZnO Nanoparticles. International Journal of Technology, 2015, 6, 1205.	0.4	3
45	The Effect of pH and Heat Treatment on the Porous TiO ₂ Nanostructures Derived from Triblock Copolymer Templating-Precipitation Technique of TiOSO ₄ Solution. Applied Mechanics and Materials, 2014, 525, 101-107.	0.2	2
46	Controlling the Size and Dispersion of ZnO@SiO ₂ Core-Shell Nanostructure by Addition of Triblock Copolymer Surfactant and pH Adjustment during Precipitation and Encapsulation Process. Advanced Materials Research, 2014, 887-888, 147-155.	0.3	0
47	The Effect of Precursor Mixing Temperature during Precipitation Process on the Size of ZnO Nanoparticles and the Dispersion of ZnO@SiO ₂ Core-Shell Nanostructure. Applied Mechanics and Materials, 2014, 525, 108-116.	0.2	1
48	Controlling the Crystallite Size of Zinc Oxide Nanorods via Chemical Bath Deposition and Post-Hydrothermal Treatment. Materials Science Forum, 2013, 737, 28-32.	0.3	6
49	Sulfuric Acid Leaching of Bangka Indonesia Ilmenite Ore and Ilmenite Decomposed by NaOH. Advanced Materials Research, 2013, 789, 522-530.	0.3	5
50	High Coverage ZnO Nanorods on ITO Substrates via Modified Chemical Bath Deposition (CBD) Method at Low Temperature. Advanced Materials Research, 2013, 789, 151-156.	0.3	1
51	Synthesis of Highly-Ordered TiO ₂ through CO ₂ Supercritical Extraction for Dye-Sensitized Solar Cell Application. Advanced Materials Research, 2013, 789, 28-32.	0.3	3
52	The Nanocrystallinity Enhancement and Optical Characteristics of Pre-Hydrothermally Treated ZnO Nanoparticles. Advanced Materials Research, 2012, 557-559, 468-471.	0.3	3
53	TiO ₂ Nanotubes of Enhanced Nanocrystallinity and Well-Preserved Nanostructure by Pre-Annealing and Post-Hydrothermal Treatments. , 2011, , .		3
54	DYE SENSITIZED SOLAR CELL WITH CONVENTIONALLY ANNEALED AND POST-HYDROTHERMALLY TREATED NANOCRYSTALLINE SEMICONDUCTOR OXIDE TiO ₂ DERIVED FROM SOL-GEL PROCESS. MAKARA of Technology Series, 2011, 14, .	0.0	2

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55	Formation and Evolution of Body-Centered Orthorhombic Mesophase in TiO ₂ Thin Films. Journal of the American Ceramic Society, 2009, 92, 1317-1321.	1.9	7
56	Enhanced Photocatalysis by Doping Cerium into Mesoporous Titania Thin Films. Journal of Physical Chemistry C, 2009, 113, 21406-21412.	1.5	92
57	Highly dispersed gold nanoparticles assembled in mesoporous titania films of cubic configuration. Microporous and Mesoporous Materials, 2008, 110, 242-249.	2.2	42
58	Diblock Copolymer Templated Nanohybrid Thin Films of Highly Ordered TiO ₂ Nanoparticle Arrays in PMMA Matrix. Chemistry of Materials, 2006, 18, 5876-5889.	3.2	68
59	Titania-PMMA nanohybrids of enhanced nanocrystallinity. Journal of Electroceramics, 2006, 16, 431-439.	0.8	30
60	Nonlinear Optical Behavior of Transparent Nanohybrids of Nanocrystalline TiO ₂ in Poly(methyl methacrylate) Prepared by In Situ Sol-Gel Polymerization Technique. Journal of Metastable and Nanocrystalline Materials, 2005, 23, 367-370.	0.1	0
61	TRANSPARENT TiO ₂ -PMMA NANOHYBRIDS OF HIGH NANOCRYSTALLINITY AND ENHANCED NONLINEAR OPTICAL PROPERTIES. Journal of Nonlinear Optical Physics and Materials, 2005, 14, 281-297.	1.1	9
62	Controlling the crystallinity and nonlinear optical properties of transparent TiO ₂ -PMMA nanohybrids. Journal of Materials Chemistry, 2004, 14, 2978-2987.	6.7	144
63	Transparent nanohybrids of nanocrystalline TiO ₂ in PMMA with unique nonlinear optical behavior. Journal of Materials Chemistry, 2003, 13, 1475.	6.7	144
64	Ultrafast optical nonlinearity in poly(methylmethacrylate)-TiO ₂ nanocomposites. Applied Physics Letters, 2003, 82, 2691-2693.	1.5	109
65	The Nanocrystallinity Enhancement of Sol-Gel Derived TiO ₂ Nanoparticles by Pre-Hydrothermal Treatment. Advanced Materials Research, 0, 415-417, 715-719.	0.3	1
66	Nanocrystallinity Enhancement of TiO ₂ Nanotubes by Post-Hydrothermal Treatment. Advanced Materials Research, 0, 277, 90-99.	0.3	19
67	Preparation, Decomposition and Characterizations of Bangka - Indonesia Ilmenite (FeTiO ₃) Derived by Hydrothermal Method Using Concentrated NaOH Solution. Advanced Materials Research, 0, 535-537, 750-756.	0.3	4
68	Synthesis and Characterization of Zinc Oxide Tetrapods from Zinc Galvanization Dross. Advanced Materials Research, 0, 557-559, 1407-1410.	0.3	1
69	One-Dimensional ZnO Nanostructures by Wet-Chemistry Technique for Dye Sensitized Solar Cell Application. Advanced Materials Research, 0, 576, 406-412.	0.3	0
70	Controlling the Nanostructural Characteristics of TiO ₂ Nanoparticles Derived from Ilmenite Mineral of Bangka Island through Sulfuric Acid Route. Applied Mechanics and Materials, 0, 391, 34-40.	0.2	8
71	Nanostructural Characteristics and Electrical Conductivity of Copper Nanoparticles-Polypropylene Nanocomposites for Bipolar Plate Application. Advanced Materials Research, 0, 634-638, 2214-2217.	0.3	1
72	Optimizing the Nanostructural Characteristics of Chemical Bath Deposition Derived ZnO Nanorods by Post-Hydrothermal Treatments. Advanced Materials Research, 0, 789, 132-137.	0.3	4

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73	The Preparation of Porous TiO ₂ Nanostructure by Triblock Copolymers Co-Templating Method of TiOSO ₄ Solution Derived from Ilmenite Ore. <i>Advanced Materials Research</i> , 0, 887-888, 132-138.	0.3	0
74	Influence of Mass Ratio of Aquadest and TTIP on the Synthesis of TiO ₂ Nanoparticles to Improve the Performance of DSSC with Beta-Carotene as Sensitizer. <i>Advanced Materials Research</i> , 0, 896, 481-484.	0.3	3
75	Tensile Behavior of Composite Concrete Reinforced Sugar Palm Fiber. <i>Key Engineering Materials</i> , 0, 777, 471-475.	0.4	4
76	Effect of SiC and Sintering Temperature Variations on the Characteristic of Fe-Sheathed MgB ₂ Superconductor Wires. <i>Materials Science Forum</i> , 0, 929, 27-32.	0.3	0
77	The Compressive Strength of Coconut Fibers Reinforced Nano Concrete Composite. <i>Materials Science Forum</i> , 0, 943, 105-110.	0.3	2
78	The Effect of Additional Zinc Oxide to Antibacterial Property of Chitosan/Collagen-Based Scaffold. <i>Materials Science Forum</i> , 0, 1000, 107-114.	0.3	1
79	Integration of Reduced Graphene Oxide in Platinum-Free Counter Electrode of Dye-Sensitized Solar Cell. <i>Materials Science Forum</i> , 0, 1000, 12-19.	0.3	3
80	Delamination Damages of Drilling Epoxy/Carbon/Basalt Fiber Reinforced Hybrid Composites Using Conventional Drill Machine. <i>Materials Science Forum</i> , 0, 1000, 151-159.	0.3	1