Ramasamy Thangavelu Rajendra Kuma

List of Publications by Year in descending order

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79 papers 2,780 citations

31 h-index 50 g-index

79 all docs

79 docs citations

times ranked

79

3981 citing authors

#	Article	IF	CITATIONS
1	Visible light-assisted degradation of 4-nitrophenol and methylene blue using low energy carbon ion-implanted ZnO nanorod arrays: Effect on mechanistic insights and stability. Chemosphere, 2022, 287, 132283.	8.2	4
2	Enhanced visible-light degradation of organic dyes via porous g-C ₃ N ₄ . Phosphorus, Sulfur and Silicon and the Related Elements, 2022, 197, 200-208.	1.6	3
3	Electrochemical Non-enzymatic sensor based on Co-H2ABDC Metal Organic Framework for detection of glyphosate. Chemical Physics Letters, 2022, 795, 139481.	2.6	10
4	Titanium-Based Metal-Organic Framework/TiO2 Composite for Degradation of Dyes Under Solar Light Irradiation. Journal of Electronic Materials, 2021, 50, 2565-2575.	2.2	7
5	NiMoO4/reduced graphene oxide composite as an electrode material for hybrid supercapacitor. Materials Science in Semiconductor Processing, 2021, 135, 106078.	4.0	28
6	MWCNT enabled smart textiles based flexible and wearable sensor for human motion and humidity monitoring. Cellulose, 2021, 28, 2505-2520.	4.9	26
7	MoS ₂ Nanosheets Decorated Multiâ€walled Carbon Nanotube Composite Electrocatalyst for 4â€Nitrophenol Detection and Hydrogen Evolution Reaction. Electroanalysis, 2020, 32, 2571-2580.	2.9	14
8	Mn–Ni binary metal oxide for high-performance supercapacitor and electro-catalyst for oxygen evolution reaction. Ceramics International, 2020, 46, 28006-28012.	4.8	34
9	Plasmonic effect and charge separation-induced photocatalytic degradation of organic dyes utilizing Au/ZnFe2O4@rGO ternary composite. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	4
10	A radially controlled ZnS interlayer on ultra-long ZnO–Gd ₂ S ₃ core–shell nanorod arrays for promoting the visible photocatalytic degradation of antibiotics. Nanoscale, 2020, 12, 14047-14060.	5.6	11
11	Magnetiteâ€Decorated Reduced Graphene Oxide: A Study of Multifunctional Antibacterial and Removal of Lead Ion Properties for Water Disinfection Applications. Advanced Engineering Materials, 2020, 22, 2000395.	3.5	7
12	Promotional Effect of Cu ₂ Sâ€"ZnS Nanograins as a Shell Layer on ZnO Nanorod Arrays for Boosting Visible Light Photocatalytic H ₂ Evolution. Journal of Physical Chemistry C, 2020, 124, 3610-3620.	3.1	23
13	Solvothermal synthesis of Fe3S4@graphene composite electrode materials for energy storage. Carbon Letters, 2020, 30, 667-673.	5. 9	8
14	Development of the PANI/MWCNT Nanocomposite-Based Fluorescent Sensor for Selective Detection of Aqueous Ammonia. ACS Omega, 2020, 5, 8414-8422.	3.5	30
15	Nitrogen-Implanted ZnO Nanorod Arrays for Visible Light Photocatalytic Degradation of a Pharmaceutical Drug Acetaminophen. ACS Omega, 2019, 4, 11973-11979.	3.5	51
16	Birnessite MnO2 decorated MWCNTs composite as a nonenzymatic hydrogen peroxide sensor. Chemical Physics Letters, 2019, 731, 136612.	2.6	18
17	Glucose oxidase immobilized amine terminated multiwall carbon nanotubes/reduced graphene oxide/polyaniline/gold nanoparticles modified screen-printed carbon electrode for highly sensitive amperometric glucose detection. Materials Science and Engineering C, 2019, 105, 110075.	7.3	74
18	Highly sensitive amperometric detection of glutamate by glutamic oxidase immobilized Pt nanoparticle decorated multiwalled carbon nanotubes(MWCNTs)/polypyrrole composite. Biosensors and Bioelectronics, 2019, 130, 307-314.	10.1	39

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19	Polyvinyl alcohol wrapped multiwall carbon nanotube (MWCNTs) network on fabrics for wearable room temperature ethanol sensor. Sensors and Actuators B: Chemical, 2018, 261, 297-306.	7.8	83
20	Impact of Oxygen Functional Groups on Reduced Graphene Oxide-Based Sensors for Ammonia and Toluene Detection at Room Temperature. ACS Omega, 2018, 3, 4105-4112.	3. 5	62
21	Magnetite Nanoparticle Decorated Reduced Graphene Oxide Composite as an Efficient and Recoverable Adsorbent for the Removal of Cesium and Strontium Ions. Industrial & Engineering Chemistry Research, 2018, 57, 1225-1232.	3.7	42
22	Influence of Fe ₃ O ₄ nanoparticles decoration on dye adsorption and magnetic separation properties of Fe ₃ O ₄ /rGO nanocomposites. Separation Science and Technology, 2018, 53, 2159-2169.	2.5	30
23	Effective shell wall thickness of vertically aligned ZnO-ZnS core-shell nanorod arrays on visible photocatalytic and photo sensing properties. Applied Catalysis B: Environmental, 2018, 237, 128-139.	20.2	91
24	Enhancement of magnetostrictive properties of Galfenol thin films. Journal of Magnetism and Magnetic Materials, 2018, 451, 300-304.	2.3	14
25	Polyaniline Anchored MWCNTs on Fabric for High Performance Wearable Ammonia Sensor. ACS Sensors, 2018, 3, 1822-1830.	7.8	153
26	Evolution of Visible Photocatalytic Properties of Cu-Doped CeO ₂ Nanoparticles: Role of Cu ²⁺ -Mediated Oxygen Vacancies and the Mixed-Valence States of Ce Ions. ACS Sustainable Chemistry and Engineering, 2018, 6, 8536-8546.	6.7	55
27	Controlled fabrication and electrowetting properties of silicon nanostructures. Journal of Adhesion Science and Technology, 2017, 31, 31-40.	2.6	3
28	Phase evolution and magnetic properties of DC sputtered Fe-Ga (Galfenol) thin films with growth temperatures. Journal of Alloys and Compounds, 2017, 704, 420-424.	5. 5	12
29	<i>In situ</i> attachment and its hydrophobicity of size- and shape-controlled silver nanoparticles on fabric surface for bioapplication. Inorganic and Nano-Metal Chemistry, 2017, 47, 1196-1203.	1.6	9
30	Electro Catalytic Properties of α, β, γ, ϵ ―MnO ₂ and γ ―MnOOH Nanoparticles: Role of Polymorphs on Enzyme Free H ₂ O ₂ Sensing. Electroanalysis, 2017, 29, 1481-1489.	2.9	40
31	Regeneration of an efficient, solar active hierarchical ZnO flower photocatalyst for repeatable usage: controlled desorption of poisoned species from active catalytic sites. RSC Advances, 2017, 7, 4983-4992.	3 . 6	50
32	Ultrasonic-assisted fabrication of superhydrophobic ZnO nanowall films. Bulletin of Materials Science, 2017, 40, 505-511.	1.7	4
33	Robust water repellent ZnO nanorod array by Swift Heavy Ion Irradiation: Effect of Electronic Excitation Induced Local Chemical State Modification. Scientific Reports, 2017, 7, 3251.	3.3	23
34	Adsorption behaviour of reduced graphene oxide towards cationic and anionic dyes: Co-action of electrostatic and π – π interactions. Materials Chemistry and Physics, 2017, 194, 243-252.	4.0	198
35	Engineering Silicon to Porous Silicon and Silicon Nanowires by Metal-Assisted Chemical Etching: Role of Ag Size and Electron-Scavenging Rate on Morphology Control and Mechanism. ACS Omega, 2017, 2, 4540-4547.	3 . 5	33
36	MWCNT Based Non-Enzymatic H2O2Sensor: Influence of Amine Functionalization on the Electrochemical H2O2Sensing. Journal of the Electrochemical Society, 2016, 163, B627-B632.	2.9	16

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37	Characterization of tannic acid- and gallic acid-functionalized single- and multiwalled carbon nanotubes and an inÂvitro evaluation of their antioxidant properties. Journal of Taibah University Medical Sciences, 2016, 11, 469-477.	0.9	8
38	One step †dip†and †use†Ag nanostructured thin films for ultrahigh sensitive SERS Detection. Materia Science and Engineering C, 2016, 68, 831-836.	nls _{7.3}	5
39	Ce 2 S 3 decorated ZnO-ZnS core-shell nanorod arrays: Efficient solar-driven photocatalytic properties. Catalysis Today, 2016, 278, 271-279.	4.4	31
40	Facile construction of vertically aligned ZnO nanorod/PEDOT:PSS hybrid heterojunction-based ultraviolet light sensors: efficient performance and mechanism. Nanotechnology, 2016, 27, 095304.	2.6	52
41	Facile construction of vertically aligned EuS-ZnO hybrid core shell nanorod arrays for visible light driven photocatalytic properties. AIP Conference Proceedings, 2015, , .	0.4	0
42	Growth and Magnetic Properties of RF Sputtered Fe-Ga Thin Films. Materials Research, 2015, 18, 946-952.	1.3	6
43	Enhanced vacuum sensing performance of multiwalled carbon nanotubes: role of defects and carboxyl functionalization. RSC Advances, 2015, 5, 20479-20485.	3.6	20
44	Synthesis and electrocatalytic properties of manganese dioxide for non-enzymatic hydrogen peroxide sensing. Materials Science in Semiconductor Processing, 2015, 31, 709-714.	4.0	28
45	Visible-light-driven SnO ₂ /TiO ₂ nanotube nanocomposite for textile effluent degradation. RSC Advances, 2015, 5, 20424-20431.	3.6	33
46	Unexpected production of singlet oxygen by sub-micron cerium oxide particles and enhanced photocatalytic activity against methyl orange. RSC Advances, 2015, 5, 56982-56986.	3.6	7
47	Multiwalled Carbon Nanotube Oxygen Sensor: Enhanced Oxygen Sensitivity at Room Temperature and Mechanism of Sensing. ACS Applied Materials & Samp; Interfaces, 2015, 7, 23857-23865.	8.0	40
48	Synthesis and Catalytic Properties of Al and Cu doped ZnO Thin Films on the Photolytic Degradation of Methylene Blue. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2014, 44, 1316-1322.	0.6	3
49	Field and temperature dependent electron transport properties of random network single walled and multi walled carbon nanotubes. Materials Research Express, 2014, 1, 035004.	1.6	3
50	Photocatalytic degradation of endocrine disruptor Bisphenol-A in the presence of prepared CexZn1â°'xO nanocomposites under irradiation of sunlight. Journal of Environmental Sciences, 2014, 26, 2362-2368.	6.1	23
51	Enhanced Room-Temperature Ferromagnetism on Co-Doped CeO ₂ Nanoparticles: Mechanism and Electronic and Optical Properties. Journal of Physical Chemistry C, 2014, 118, 27039-27047.	3.1	94
52	Control of interconnected ZnO nanowires to vertically aligned ZnO nanorod arrays by tailoring the underlying spray deposited ZnO seed layer. Materials Research Bulletin, 2014, 60, 584-588.	5.2	9
53	In Vitro Bacterial Cytotoxicity of CNTs: Reactive Oxygen Species Mediate Cell Damage Edges over Direct Physical Puncturing. Langmuir, 2014, 30, 592-601.	3.5	69
54	Alignment, Morphology and Defect Control of Vertically Aligned ZnO Nanorod Array: Competition between "Surfactant―and "Stabilizer―Roles of the Amine Species and Its Photocatalytic Properties. Crystal Growth and Design, 2014, 14, 2873-2879.	3.0	33

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55	Cobalt-doped cerium oxide nanoparticles: Enhanced photocatalytic activity under UV and visible light irradiation. Materials Science in Semiconductor Processing, 2014, 26, 218-224.	4.0	98
56	Fabrication and Electrowetting Properties of Poly Si Nanostructure Based Superhydrophobic Platform. Plasma Chemistry and Plasma Processing, 2013, 33, 807-816.	2.4	8
57	ZnO microrods to nanowalled microtubes: optimization using simple fluorescence microscopy and enhanced photocatalytic properties. Journal of Microscopy, 2013, 252, 217-225.	1.8	4
58	Recent Progress on the Synthesis and Applications of Carbon Based Nanostructures. Recent Patents on Nanotechnology, 2012, 6, 99-104.	1.3	9
59	Effects of the crystallite mosaic spread on integrated peak intensities in 2θ–ω measurements of highly crystallographically textured ZnO thin films. Journal Physics D: Applied Physics, 2011, 44, 375401.	2.8	20
60	Simple Approach to Superamphiphobic Overhanging Silicon Nanostructures. Journal of Physical Chemistry C, 2010, 114, 2936-2940.	3.1	105
61	Nanobits: customizable scanning probe tips. Nanotechnology, 2009, 20, 395703.	2.6	27
62	On the suitability of carbon nanotube forests as non-stick surfaces for nanomanipulation. Soft Matter, 2008, 4, 392.	2.7	14
63	Guiding of highly charged ions through insulating nanocapillaries. Canadian Journal of Physics, 2008, 86, 327-330.	1.1	7
64	Control of ZnO nanorod array density by Zn supersaturation variation and effects on field emission. Nanotechnology, 2007, 18, 215704.	2.6	48
65	Li doped and undoped ZnO nanocrystalline thin films: a comparative study of structural and optical properties. Journal of Sol-Gel Science and Technology, 2007, 43, 171-177.	2.4	132
66	Guiding of highly charged ions by highly orderedSiO2nanocapillaries. Physical Review A, 2006, 73, .	2.5	118
67	Fabrication of silicon dioxide nanocapillary arrays for guiding highly charged ions. Nanotechnology, 2005, 16, 1697-1700.	2.6	34
68	Characteristics of amorphous VO ₂ thin films prepared by pulsed laser deposition. Journal of Materials Science, 2004, 39, 2869-2871.	3.7	13
69	Formation of ordered pore arrays at the nanoscale by electrochemical etching of n-type silicon. Superlattices and Microstructures, 2004, 36, 245-253.	3.1	14
70	Optoelectronic properties of Zn0.52Se0.48/Si Schottky diodes. Solid-State Electronics, 2004, 48, 2219-2223.	1.4	31
71	Determination of Thermal Parameters of Vanadium Oxide Uncooled Microbolometer Infrared Detector. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 327-334.	0.6	9
72	Room temperature deposited vanadium oxide thin films for uncooled infrared detectors. Materials Research Bulletin, 2003, 38, 1235-1240.	5.2	49

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73	Optical constants of DC magnetron sputtered titanium dioxide thin films measured by spectroscopic ellipsometry. Crystal Research and Technology, 2003, 38, 773-778.	1.3	49
74	Structural characterization of DC magnetron-sputtered TiO2 thin films using XRD and Raman scattering studies. Materials Science in Semiconductor Processing, 2003, 6, 547-550.	4.0	44
75	Structural properties of V2O5 thin films prepared by vacuum evaporation. Materials Science in Semiconductor Processing, 2003, 6, 543-546.	4.0	51
76	Influence of deposition temperature on the growth of vacuum evaporated V2O5 thin films. Materials Letters, 2003, 57, 3820-3825.	2.6	34
77	Study of a pulsed laser deposited vanadium oxide based microbolometer array. Smart Materials and Structures, 2003, 12, 188-192.	3.5	43
78	Synthesis and Characterization of Reduced Graphene Oxide. Advanced Materials Research, 0, 678, 56-60.	0.3	42
79	Synthesis and Antibacterial Studies of Nano Structured Ag Thin Films. Advanced Materials Research, 0, 678, 291-296.	0.3	4