R M Gamini Rajapakse

List of Publications by Year
in descending order

58 papers	1,320 citations	361413 20 h-index	377865 34 g-index
58 all docs	58 docs citations	58 times ranked	1628 citing authors

#	Article	IF	Citations
1	Thermal decomposition of calcium carbonate (calcite polymorph) as examined by in-situ high-temperature X-ray powder diffraction. Journal of Physics and Chemistry of Solids, 2019, 134, 21-28.	4.0	233
2	Facile synthesis of both needle-like and spherical hydroxyapatite nanoparticles: Effect of synthetic temperature and calcination on morphology, crystallite size and crystallinity. Materials Science and Engineering C, 2014, 42, 83-90.	7.3	85
3	Cement Types, Composition, Uses and Advantages of Nanocement, Environmental Impact on Cement Production, and Possible Solutions. Advances in Materials Science and Engineering, 2018, 2018, 1-11.	1.8	79
4	Grafting and electrochemical characterisation of poly-(3,4-ethylenedioxythiophene) films, on Nafion and on radiation-grafted polystyrenesulfonateâ€“polyvinylidene fluoride composite surfaces. Journal of Materials Chemistry, 2003, 13, 2485-2489.	6.7	59
5	Encapsulation of anticancer drug copper bis(8-hydroxyquinoline) in hydroxyapatite for pH-sensitive targeted delivery and slow release. Materials Science and Engineering C, 2017, 71, 206-213.	7.3	50
6	Precipitated calcium carbonate/poly(methyl methacrylate) nanocomposite using dolomite: Synthesis, characterization and properties. Powder Technology, 2013, 235, 628-632.	4.2	45
7	Hydrothermally synthesized titania nanotubes as a promising electron transport medium in dye sensitized solar cells exhibiting a record efficiency of 7.6% for 1-D based devices. Journal of Materials Chemistry A, 2013, 1, 5377.	10.3	43
8	Photodegradation of Triphenylamino Methane (Magenta) by Photosensitizer in Oxygenated Solutions. Environmental Science & Technology, 2009, 43, 176-180.	10.0	39
9	Synthesis of Curcumin Nanoparticles from Raw Turmeric Rhizome. ACS Omega, 2021, 6, 8246-8252.	3.5	39
10	Surfactant assisted synthesis of precipitated calcium carbonate nanoparticles using dolomite: Effect of pH on morphology and particle size. Advanced Powder Technology, 2020, 31, 269-278.	4.1	37
11	Powder Pressed Cuprous Iodide (CuI) as A Hole Transporting Material for Perovskite Solar Cells. Materials, 2019, 12, 2037.	2.9	35
12	Electrosynthesis and characterization of biotin-functionalized poly(terthiophene) copolymers, and their response to avidin. Journal of Materials Chemistry, 2005, 15, 1186.	6.7	34
13	Preparation of Fluoride-Doped Tin Oxide Films on Sodaâ€“Lime Glass Substrates by Atomized Spray Pyrolysis Technique and Their Subsequent Use in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16479-16485.	3.1	34
14	Significance of Mg-hardness and fluoride in drinking water on chronic kidney disease of unknown etiology in Monaragala, Sri Lanka. Environmental Research, 2022, 203, 111779.	7.5	29
15	Formation of hollow bone-like morphology of calcium carbonate on surfactant/polymer templates. Journal of Crystal Growth, 2014, 392, 52-59.	1.5	28
16	The effect of prolonged milling time on comminution of quartz. Powder Technology, 2018, 330, 266-274.	4.2	28
17	Convenient routes to synthesize uncommon vaterite nanoparticles and the nanocomposites of alkyd resin/polyaniline/vaterite: The latter possessing superior anticorrosive performance on mild steel surfaces. Electrochimica Acta, 2014, 117, 460-469.	5.2	25
18	Preparation and characterization of mesoporous hydroxyapatite with non-cytotoxicity and heavy metal adsorption capacity. New Journal of Chemistry, 2018, 42, 10271-10278.	2.8	24

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19	Synthesis of a hydroxyapatite/poly(methyl methacrylate) nanocomposite using dolomite. Nanoscale Advances, 2019, 1, 86-88.	4.6	24
20	Doxorubicin Loaded Magnesium Oxide Nanoflakes as pH Dependent Carriers for Simultaneous Treatment of Cancer and Hypomagnesemia. Nanomaterials, 2019, 9, 208.	4.1	22
21	Emerging investigator series: synthesis of magnesium oxide nanoparticles fabricated on a graphene oxide nanocomposite for CO2 sequestration at elevated temperatures. Environmental Science: Nano, 2020, 7, 1225-1239.	4.3	21
22	Synthesis of high purity calcium carbonate microâ€•and nanoâ€structures on polyethylene glycol templates using dolomite. Crystal Research and Technology, 2016, 51, 207-214.	1.3	20
23	The composition, unit cell parameters and microstructure of quartz during phase transformation from Î± to Î² as examined by in-situ high-temperature X-ray powder diffraction. Journal of Physics and Chemistry of Solids, 2018, 117, 131-138.	4.0	20
24	Synthesis and characterization of monomeric and polymeric Pd(II) and Pt(II) complexes of 3,4-ethylenedioxythiophene-functionalized phosphine ligands. Journal of Materials Chemistry, 2009, 19, 1850.	6.7	18
25	Relative stability of hydrated/anhydrous products of calcium chloride during complete dehydration as examined by high-temperature X-ray powder diffraction. Journal of Physics and Chemistry of Solids, 2018, 120, 167-172.	4.0	18
26	AC impedance analysis of polyanilineâ€“montmorillonite nanocomposites. Ionics, 2006, 12, 287-294.	2.4	16
27	Advances in electro-copolymerization of NIR emitting and electronically conducting block copolymers. Journal of Materials Chemistry C, 2019, 7, 3168-3172.	5.5	16
28	Nonhazardous Process for Extracting Pure Titanium Dioxide Nanorods from Geogenic Ilmenite. ACS Omega, 2020, 5, 16176-16182.	3.5	15
29	Effect of morphology on larvicidal activity of chemically synthesized zinc oxide nanoparticles against mosquito vectors. RSC Advances, 2021, 11, 8857-8866.	3.6	15
30	Preparation, characterization and oxygen reduction catalytic activities of nanocomposites of Co(<scp>ii</scp>)/montmorillonite containing polypyrrole, polyaniline or poly(ethylenedioxythiophene). RSC Advances, 2016, 6, 112853-112863.	3.6	14
31	Removal of fluoride from aqueous solution by porous Vaterite calcium carbonate nanoparticles. Materials Research Express, 2020, 7, 035009.	1.6	14
32	Implementing the donorâ€“acceptor approach in electronically conducting copolymersviaelectropolymerization. RSC Advances, 2022, 12, 12089-12115.	3.6	13
33	Synthesis of Hematite Nanodiscs from Natural Laterites and Investigating Their Adsorption Capability of Removing Ni2+ and Cd2+ Ions from Aqueous Solutions. Journal of Composites Science, 2020, 4, 57.	3.0	11
34	Encapsulation of anticancer drug cisplatin in vaterite polymorph of calcium carbonate nanoparticles for targeted delivery and slow release. Biomedical Physics and Engineering Express, 2018, 4, 015017.	1.2	10
35	A potential working electrode based on graphite and montmorillonite for electrochemical applications in both aqueous and molten salt electrolytes. Electrochemistry Communications, 2019, 108, 106562.	4.7	10
36	Removal of Phosphate from Aqueous Solutions Using Chemically Synthesized Vaterite Polymorph of Porous Calcium Carbonate Nanoparticles under Optimized Conditions. Journal of Nanomaterials, 2020, 2020, 1-15.	2.7	10

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37	Akaganeite nanorices deposited muscovite mica surfaces as sunlight active green photocatalyst. Royal Society Open Science, 2019, 6, 182212.	2.4	9
38	Noyes-Whitney Dissolution Model-Based pH-Sensitive Slow Release of Paclitaxel (Taxol) from Human Hair-Derived Keratin Microparticle Carriers. BioMed Research International, 2021, 2021, 1-8.	1.9	9
39	Electrochemical Copolymerization of Isoindigoâ€Based Donorâ€Acceptor Polymers with Intrinsically Enhanced Conductivity and Nearâ€Infraredâ€II Activity. ChemElectroChem, 2020, 7, 3752-3760.	3.4	8
40	Designing hierarchical structures of complex electronically conducting organic polymersviaone-step electro-polymerization. Journal of Materials Chemistry C, 2020, 8, 5934-5940.	5.5	8
41	Synthesis of cisplatin encapsulated Zinc oxide nanoparticles and their application as a carrier in targeted drug delivery. Ceylon Journal of Science, 2020, 49, 71.	0.3	8
42	Synthesis, characterization and photochemistry of 5,10,15,20-tetrakis(4-N-pentylpyridyl)porphyrins, [(TPePyP)H₂]⁴⁺ and [(TPePyP)Zn^{II}]⁴⁺. Journal of Porphyrins and Phthalocyanines, 2005, 09, 155-162.	0.8	6
43	A binderâ€free composite of graphite and kaolinite as a stable working electrode for general electrochemical applications. Electrochemical Science Advances, 2021, 1, e2100003.	2.8	6
44	Low-cost ternary composite of graphite, kaolinite and cement as a potential working electrode for general electrochemical applications. Chemical Papers, 2022, 76, 6653-6658.	2.2	6
45	Radically Accessing Dâ€“A Type Ambipolar Copolymeric Materials with Intrinsic Electrical Conductivity and Visibleâ€“Near Infrared Absorption Via Electroâ€Copolymerization. Macromolecular Chemistry and Physics, 2019, 220, 1900289.	2.2	5
46	Anti-stain and durable superhydrophobic/antistatic dual functionality surface for fabric materials based on F-ZnO/TiO2 composite. Journal of Sol-Gel Science and Technology, 2022, 101, 529-538.	2.4	5
47	Formulation of Iron Oxide and Oxy-hydroxide Nanoparticles from Ilmenite Sand through a Low-Temperature Process. ACS Omega, 2021, 6, 17824-17830.	3.5	4
48	Alignment of Nematic and Ferroelectric Liquid Crystals on Rubbed Polyaniline Films. Molecular Crystals and Liquid Crystals, 1995, 270, 85-89.	0.3	2
49	A Novel Method to Enhance the Performance of Quasi-solid-state Dye-sensitized Solar Cells Based on Polyacrylonitrile Gel Electrolyte and Nanoparticles of ZnO with Indoline D-358 as the Dye. Chemistry Letters, 2014, 43, 681-683.	1.3	2
50	Synthesis and characterization of [MCl 2 (PAr 3) 2]â€“ethylenedioxythiophene copolymers (M = Pd, Pt), made by electropolymerisation of diphenyl(2,2â€²,3,3â€²-tetrahydro-[5,5â€²-bithieno[3,4- b) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 217	2.4	2
51	Impact of 4-Tertiary-butylpyridine in Imidazolium Iodide/Triiodide Redox Couple-Based Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2021, 4, 9393-9401.	5.1	2
52	Correlation of Solid-State Order to Optoelectronic Behavior in Heterocyclic Oligomers. CrystEngComm, 0, , .	2.6	2
53	Novel Liquid Crystal Display on Polyaniline Modified Glass. Molecular Crystals and Liquid Crystals, 1997, 307, 125-133.	0.3	1
54	Evaluation of cell compatibility of surfaces patterned with hydroxyapatite nanopowders on Ti surfaces. Bulletin of Materials Science, 2021, 44, 1.	1.7	1

#	Article	IF	Citations
55	Investigation on the Synthesis of PCC Nanostructures using a Spinning Disk Reactor: Effects of Disk Speed. , 2021, , .		1
56	MONTMORILLONITE AS A CONDUCTIVITY ENHANCER IN (PEO)₉LiCF₃SO₃ POLYMER ELECTROLYTE. , 2006, , .		0
57	Cuprous Ion Conducting Montmorillonite- Polypyrrole Nanocomposites. , 2006, , .		0
58	Surfactant/Citrate Assisted Synthesis of Calcium Carbonate Nanostructures from Natural Calcite. Lecture Notes in Civil Engineering, 2021, , 291-301.	0.4	0