

Samayananan Selvam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52 papers	1,312 citations	22 h-index	35 g-index
59 ext. papers	1,629 ext. citations	5.2 avg, IF	4.89 L-index

#	Paper	IF	Citations
52	Multifunctional supercapacitor integrated sensor from Oyster and Cicada derived bio-ternary composite: Vanillin/caffeine detections in beverages. <i>Journal of Energy Storage</i> , 2022 , 45, 103791	7.8	3
51	Styrene-based ternary composite elastomers functionalized with graphene oxide-polypyrrole under iron(III)-alkyl benzenesulfonate oxidants for supercapacitor integrated strain sensor system. <i>Journal of Energy Storage</i> , 2022 , 51, 104543	7.8	0
50	Synthesis of biocompatible chitosan functionalized Ag decorated biocomposite for effective antibacterial and anticancer activity. <i>International Journal of Biological Macromolecules</i> , 2021 , 178, 270-282	7.9	4
49	Effect of the Chemical Structure of the Oxidants on the Opto-electronic Properties of Polypyrrole Thin Film. <i>Porrime</i> , 2021 , 45, 443-449	1	2
48	Ionic liquid mediated green synthesis of Ag-Au/Y2O3 nanoparticles using leaves extracts of Justicia adhatoda: Structural characterization and its biological applications. <i>Advanced Powder Technology</i> , 2021 ,	4.6	4
47	Facile synthesis of highly biologically active chitosan functionalized 2D WS2 nanocomposite anchored with palladium nanoparticles for antibacterial and anticancer activity: In-vitro biomedical evaluation. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116582	6	8
46	Leakage free electrolyte engraved flexible supercapacitors from Chitosan/GO@MnCO3 polymer hydrogel chelate film under BMIMBF4 ionic liquid assistance.. <i>Journal of Energy Storage</i> , 2021 , 43, 103300	7.8	6
45	High temperature-functioning ceramic-based ionic liquid electrolyte engraved planar HAp/PVP/MnO2@MnCO3 supercapacitors on carbon cloth. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14319-14330	13	6
44	Biogenic approach for the synthesis of Ag-Au doped RuO2 nanoparticles in BMIM-PF6 ionic liquid medium: Structural characterization and its biocidal activity against pathogenic bacteria and HeLa cancerous cells. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113245	6	5
43	Fabrication of heteroatom doped NFP-MWCNT and NFB-MWCNT nanocomposite from imidazolium ionic liquid functionalized MWCNT for antibiofilm and wound healing in Wistar rats: Synthesis, characterization, in-vitro and in-vivo studies. <i>Materials Science and Engineering C</i> , 2020 , 111, 110791	8.3	33
42	Green biosynthesis of gold nanoparticles using Croton sparsiflorus leaves extract and evaluation of UV protection, antibacterial and anticancer applications. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5574	3.1	14
41	Fabrication of palladium nanoparticles anchored polypyrrole functionalized reduced graphene oxide nanocomposite for antibiofilm associated orthopedic tissue engineering. <i>Applied Surface Science</i> , 2020 , 510, 145403	6.7	31
40	A cholesterol based imidazolium ionic liquid crystal: synthesis, characterisation and its dual application as an electrolyte and electrode material. <i>New Journal of Chemistry</i> , 2019 , 43, 1063-1071	3.6	4
39	Two dimensional graphene oxides converted to three dimensional P, N, F and B, N, F tri-doped graphene by ionic liquid for efficient catalytic performance. <i>Carbon</i> , 2019 , 151, 53-67	10.4	35
38	[BMIM] PF6 ionic liquid mediated green synthesis of ceramic SrO/CeO2 nanostructure using Pedalium murex leaf extract and their antioxidant and antibacterial activities. <i>Ceramics International</i> , 2019 , 45, 12138-12148	5.1	20
37	Evaluation of Antibacterial and Anticancer Potential of Polyaniline-Bimetal Nanocomposites Synthesized from Chemical Reduction Method. <i>Journal of Cluster Science</i> , 2019 , 30, 715-726	3	54
36	Ionic liquid - A greener templating agent with Justicia adhatoda plant extract assisted green synthesis of morphologically improved Ag-Au/ZnO nanostructure and its antibacterial and anticancer activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 198, 111559	6.7	35

35	Biogenic synthesis of gold nanoparticles from <i>Halymenia dilatata</i> for pharmaceutical applications: Antioxidant, anti-cancer and antibacterial activities. <i>Process Biochemistry</i> , 2019 , 85, 219-229	4.8	24
34	Poly (ethylene glycol) stabilized synthesis of inorganic cesium lead iodide polycrystalline light-absorber for perovskite solar cell. <i>Materials Letters</i> , 2019 , 240, 132-135	3.3	7
33	Ornamental morphology of ionic liquid functionalized ternary doped N, P, F and N, B, F-reduced graphene oxide and their prevention activities of bacterial biofilm-associated with orthopedic implantation. <i>Materials Science and Engineering C</i> , 2019 , 98, 1122-1132	8.3	24
32	Antibacterial efficacy of a fucoidan fraction (Fu-F2) extracted from <i>Sargassum polycystum</i> . <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 485-495	7.9	24
31	Photoluminescent reduced graphene oxide quantum dots from latex of <i>Calotropis gigantea</i> for metal sensing, radical scavenging, cytotoxicity, and bioimaging in <i>Artemia salina</i> : A greener route. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 178, 371-379	6.7	47
30	Highly biological active antibiofilm, anticancer and osteoblast adhesion efficacy from MWCNT/PPy/Pd nanocomposite. <i>Applied Surface Science</i> , 2018 , 434, 400-411	6.7	35
29	Improved conductivity and antibacterial activity of poly(2-aminothiophenol)-silver nanocomposite against human pathogens. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 178, 323-329	6.7	12
28	Facile biological synthetic strategy to morphologically aligned CeO/ZrO core nanoparticles using <i>Justicia adhatoda</i> extract and ionic liquid: Enhancement of its bio-medical properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 178, 481-488	6.7	33
27	Influences of ionic liquid and temperature on the tailorable surface morphology of F-apatite nanocomposites for enhancing biological abilities for orthopedic implantation. <i>Materials Science and Engineering C</i> , 2018 , 84, 99-107	8.3	21
26	Ternary nanocomposite designed by MWCNT backbone PPy/Pd for efficient catalytic approach toward reduction and oxidation reactions. <i>Advanced Powder Technology</i> , 2018 , 29, 3173-3182	4.6	22
25	Superior one-pot synthesis of a doped graphene oxide electrode for a high power density supercapacitor. <i>New Journal of Chemistry</i> , 2018 , 42, 11093-11101	3.6	19
24	Green approach: Ionic liquid assisted synthesis of nanocrystalline ZnO in phyto medium and their antibacterial investigation. <i>Materials Letters</i> , 2017 , 201, 31-34	3.3	14
23	Hybrid Reduced Graphene Oxide/Manganese Diselenide Cubes: A New Electrode Material for Supercapacitors. <i>Energy Technology</i> , 2017 , 5, 1953-1962	3.5	40
22	Synthesis of platinum nanoparticles using seaweed <i>Padina gymnospora</i> and their catalytic activity as PVP/PtNPs nanocomposite towards biological applications. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 92, 479-490	7.5	79
21	Electrolyte-imprinted graphene oxide-chitosan chelate with copper crosslinked composite electrodes for intense cyclic-stable, flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1380-1386	13	32
20	Drastic photocatalytic degradation of methylene blue dye by neodymium doped zirconium oxide as photocatalyst under visible light irradiation. <i>Optik</i> , 2016 , 127, 10288-10296	2.5	29
19	Simultaneous electrochemical deposition of an e-rGO/ECd/MnO ₂ ternary composite for a self-powered supercapacitor based caffeine sensor. <i>Analytical Methods</i> , 2016 , 8, 7937-7943	3.2	13
18	Phase transition kinetics and surface binding states of methylammonium lead iodide perovskite. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7284-92	3.6	64

17	Facile green synthesis of silver doped fluor-hydroxyapatite/ β -cyclodextrin nanocomposite in the dual acting fluorine-containing ionic liquid medium for bone substitute applications. <i>Applied Surface Science</i> , 2016 , 371, 468-478	6.7	20
16	Novel strategy for f-HAp/PVP/Ag nanocomposite synthesis from fluoro based ionic liquid assistance: Systematic investigations on its antibacterial and cytotoxicity behaviors. <i>Materials Science and Engineering C</i> , 2016 , 67, 8-19	8.3	27
15	Novel high-temperature supercapacitor combined dye sensitized solar cell from a sulfated β -cyclodextrin/PVP/MnCO ₃ composite. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10225-10232	13	45
14	The ionic liquid assisted green synthesis of hydroxyapatite nanoplates by <i>Moringa oleifera</i> flower extract: A biomimetic approach. <i>Materials and Design</i> , 2015 , 88, 1183-1190	8.1	46
13	Stacked Cu _{1.8} S nanoplatelets as counter electrode for quantum dot-sensitized solar cell. <i>RSC Advances</i> , 2015 , 5, 100560-100567	3.7	17
12	Synthesis of sulfated β -cyclodextrin/cotton/ZnO nano composite for improve the antibacterial activity and dyeability with <i>Azadirachta indica</i> . <i>Journal of Applied Polymer Science</i> , 2013 , 128, 108-114	2.9	7
11	Synthesis of Magnesium Oxide Nanoparticles by Wet Chemical Method and its Antibacterial Activity. <i>Advanced Materials Research</i> , 2013 , 678, 297-300	0.5	5
10	Ultrasonic Dyeing of Enzyme Treated Organic Cotton Using <i>Nyctanthes Arbor-Tristis</i> . <i>Chemical Science Transactions</i> , 2013 , 2, 642-648	0.3	2
9	Antibacterial effect of novel synthesized sulfated β -cyclodextrin crosslinked cotton fabric and its improved antibacterial activities with ZnO, TiO ₂ and Ag nanoparticles coating. <i>International Journal of Pharmaceutics</i> , 2012 , 434, 366-74	6.5	79
8	Preparation and Characterization of Nano-size Polyreactive Blue MXR. <i>E-Journal of Chemistry</i> , 2012 , 9, 1336-1341		0
7	Functionalization of cotton fabric with PVP/ZnO nanoparticles for improved reactive dyeability and antibacterial activity. <i>Carbohydrate Polymers</i> , 2012 , 87, 1419-1424	10.3	101
6	Sol-Gel Synthesis of MgO Nanoparticles Using Ionic Liquid- [BMIM]BF ₄ as Capping Agent. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 100-104	0.8	6
5	Effect of Calcination Temperature on Surface Morphology of Ionic Liquid Assisted MgO Nanoparticles by Sol-Gel Method. <i>Advanced Science Letters</i> , 2012 , 16, 244-248	0.1	3
4	Surface Modification and Antibacterial Behaviour of Bio-Synthesised MgO Nanoparticles Coated Cotton Fabric. <i>Journal of Biobased Materials and Bioenergy</i> , 2012 , 6,	1.4	7
3	Chitosan and Cyclodextrin Modification on Cellulosic Fabric for Enhanced Natural Dyeing. <i>Chemical Science Transactions</i> , 2012 , 1, 440-446	0.3	6
2	Biosynthesis of silver nanoparticles by using mangrove plant extract and their potential mosquito larvicidal property. <i>Asian Pacific Journal of Tropical Medicine</i> , 2011 , 4, 799-803	2.1	133
1	Conformable on-skin supercapacitor-integrated, strain sensor based on multioxidant-functionalized thermoplastic polyurethane/reduced graphene oxide/polypyrrole composite films. <i>New Journal of Chemistry</i> ,	3.6	1