Samayanan Selvam

List of Publications by Citations

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	Biosynthesis of silver nanoparticles by using mangrove plant extract and their potential mosquito larvicidal property. *Asian Pacific Journal of Tropical Medicine*, **2011**, 4, 799-803	2.1	133
51	Functionalization of cotton fabric with PVP/ZnO nanoparticles for improved reactive dyeability and antibacterial activity. *Carbohydrate Polymers*, **2012**, 87, 1419-1424	10.3	101
50	Synthesis of platinum nanoparticles using seaweed Padina gymnospora and their catalytic activity as PVP/PtNPs nanocomposite towards biological applications. *Biomedicine and Pharmacotherapy*, **2017**, 92, 479-490	7.5	79
49	Antibacterial effect of novel synthesized sulfated Ecyclodextrin crosslinked cotton fabric and its improved antibacterial activities with ZnO, TiO2 and Ag nanoparticles coating. *International Journal of Pharmaceutics*, **2012**, 434, 366-74	6.5	79
48	Phase transition kinetics and surface binding states of methylammonium lead iodide perovskite. *Physical Chemistry Chemical Physics*, **2016**, 18, 7284-92	3.6	64
47	Evaluation of Antibacterial and Anticancer Potential of Polyaniline-Bimetal Nanocomposites Synthesized from Chemical Reduction Method. *Journal of Cluster Science*, **2019**, 30, 715-726	3	54
46	Photoluminescent reduced graphene oxide quantum dots from latex of Calotropis gigantea for metal sensing, radical scavenging, cytotoxicity, and bioimaging in Artemia salina: A greener route. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 178, 371-379	6.7	47
45	The ionic liquid assisted green synthesis of hydroxyapatite nanoplates by Moringa oleifera flower extract: A biomimetic approach. *Materials and Design*, **2015**, 88, 1183-1190	8.1	46
44	Novel high-temperature supercapacitor combined dye sensitized solar cell from a sulfated Ecyclodextrin/PVP/MnCO3 composite. *Journal of Materials Chemistry A*, **2015**, 3, 10225-10232	13	45
43	Hybrid Reduced Graphene Oxide/Manganese Diselenide Cubes: A New Electrode Material for Supercapacitors. *Energy Technology*, **2017**, 5, 1953-1962	3.5	40
42	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. *Carbon*, **2019**, 151, 53-67	10.4	35
41	Highly biological active antibiofilm, anticancer and osteoblast adhesion efficacy from MWCNT/PPy/Pd nanocomposite. *Applied Surface Science*, **2018**, 434, 400-411	6.7	35
40	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. *Journal of Photochemistry and Photobiology B: Biology*, **2019**, 198, 111559	6.7	35
39	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. *Materials Science and Engineering C*, **2020**, 111, 110791	8.3	33
38	Facile biological synthetic strategy to morphologically aligned CeO/ZrO core nanoparticles using Justicia adhatoda extract and ionic liquid: Enhancement of its bio-medical properties. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 178, 481-488	6.7	33
37	Electrolyte-imprinted graphene oxideEchitosan chelate with copper crosslinked composite electrodes for intense cyclic-stable, flexible supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 1380-1386	13	32
36	Fabrication of palladium nanoparticles anchored polypyrrole functionalized reduced graphene oxide nanocomposite for antibiofilm associated orthopedic tissue engineering. *Applied Surface Science*, **2020**, 510, 145403	6.7	31

35	Drastic photocatalytic degradation of methylene blue dye by neodymium doped zirconium oxide as photocatalyst under visible light irradiation. *Optik*, **2016**, 127, 10288-10296	2.5	29
34	Novel strategy for f-HAp/PVP/Ag nanocomposite synthesis from fluoro based ionic liquid assistance: Systematic investigations on its antibacterial and cytotoxicity behaviors. *Materials Science and Engineering C*, **2016**, 67, 8-19	8.3	27
33	Biogenic synthesis of gold nanoparticles from Halymenia dilatata for pharmaceutical applications: Antioxidant, anti-cancer and antibacterial activities. *Process Biochemistry*, **2019**, 85, 219-229	4.8	24
32	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. *Materials Science and Engineering C*, **2019**, 98, 1122-1132	8.3	24
31	Antibacterial efficacy of a fucoidan fraction (Fu-F2) extracted from Sargassum polycystum. *International Journal of Biological Macromolecules*, **2019**, 125, 485-495	7.9	24
30	Ternary nanocomposite designed by MWCNT backbone PPy/Pd for efficient catalytic approach toward reduction and oxidation reactions. *Advanced Powder Technology*, **2018**, 29, 3173-3182	4.6	22
29	Influences of ionic liquid and temperature on the tailorable surface morphology of F-apatite nanocomposites for enhancing biological abilities for orthopedic implantation. *Materials Science and Engineering C*, **2018**, 84, 99-107	8.3	21
28	[BMIM] PF6 ionic liquid mediated green synthesis of ceramic SrO/CeO2 nanostructure using Pedalium murex leaf extract and their antioxidant and antibacterial activities. *Ceramics International*, **2019**, 45, 12138-12148	5.1	20
27	Facile green synthesis of silver doped fluor-hydroxyapatite/Ecyclodextrin nanocomposite in the dual acting fluorine-containing ionic liquid medium for bone substitute applications. *Applied Surface Science*, **2016**, 371, 468-478	6.7	20
26	Superior one-pot synthesis of a doped graphene oxide electrode for a high power density supercapacitor. *New Journal of Chemistry*, **2018**, 42, 11093-11101	3.6	19
25	Stacked Cu1.8S nanoplatelets as counter electrode for quantum dot-sensitized solar cell. *RSC Advances*, **2015**, 5, 100560-100567	3.7	17
24	Green approach: Ionic liquid assisted synthesis of nanocrystalline ZnO in phyto medium and their antibacterial investigation. *Materials Letters*, **2017**, 201, 31-34	3.3	14
23	Green biosynthesis of gold nanoparticles using Croton sparsiflorus leaves extract and evaluation of UV protection, antibacterial and anticancer applications. *Applied Organometallic Chemistry*, **2020**, 34, e5574	3.1	14
22	Simultaneous electrochemical deposition of an e-rGO/ECD/MnO2 ternary composite for a self-powered supercapacitor based caffeine sensor. *Analytical Methods*, **2016**, 8, 7937-7943	3.2	13
21	Improved conductivity and antibacterial activity of poly(2-aminothiophenol)-silver nanocomposite against human pathogens. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 178, 323-329	6.7	12
20	Facile synthesis of highly biologically active chitosan functionalized 2D WS2 nanocomposite anchored with palladium nanoparticles for antibacterial and anticancer activity: In-vitro biomedical evaluation. *Journal of Molecular Liquids*, **2021**, 335, 116582	6	8
19	Synthesis of sulfated Ecyclodextrin/cotton/ZnO nano composite for improve the antibacterial activity and dyeability with Azadirachta indica. *Journal of Applied Polymer Science*, **2013**, 128, 108-114	2.9	7
18	Surface Modification and Antibacterial Behaviour of Bio-Synthesised MgO Nanoparticles Coated Cotton Fabric. *Journal of Biobased Materials and Bioenergy*, **2012**, 6,	1.4	7

17	Poly (ethylene glycol) stabilized synthesis of inorganic cesium lead iodide polycrystalline light-absorber for perovskite solar cell. *Materials Letters*, **2019**, 240, 132-135	3.3	7
16	Sol Gel Synthesis of MgO Nanoparticles Using Ionic Liquid- [BMIM]BF4 as Capping Agent. *Nanoscience and Nanotechnology Letters*, **2012**, 4, 100-104	0.8	6
15	Chitosan and Cyclodextrin Modification on Cellulosic Fabric for Enhanced Natural Dyeing. *Chemical Science Transactions*, **2012**, 1, 440-446	0.3	6
14	Leakage free electrolyte engraved flexible supercapacitors from Chitosan/GO@MnCO3 polymer hydrogel chelate film under BMIMBF4 ionic liquid assistance.. *Journal of Energy Storage*, **2021**, 43, 103300	7.8	6
13	High temperature-functioning ceramic-based ionic liquid electrolyte engraved planar HAp/PVP/MnO2@MnCO3 supercapacitors on carbon cloth. *Journal of Materials Chemistry A*, **2021**, 9, 14319-14330	13	6
12	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. *Journal of Molecular Liquids*, **2020**, 312, 113245	6	5
11	Synthesis of Magnesium Oxide Nanoparticles by Wet Chemical Method and its Antibacterial Activity. *Advanced Materials Research*, **2013**, 678, 297-300	0.5	5
10	A cholesterol based imidazolium ionic liquid crystal: synthesis, characterisation and its dual application as an electrolyte and electrode material. *New Journal of Chemistry*, **2019**, 43, 1063-1071	3.6	4
9	Synthesis of biocompatible chitosan functionalized Ag decorated biocomposite for effective antibacterial and anticancer activity. *International Journal of Biological Macromolecules*, **2021**, 178, 270-282	7.9	4
8	Ionic liquid mediated green synthesis of Ag-Au/Y2O3 nanoparticles using leaves extracts of Justicia adhatoda: Structural characterization and its biological applications. *Advanced Powder Technology*, **2021**,	4.6	4
7	Multifunctional supercapacitor integrated sensor from Oyster and Cicada derived bio-ternary composite: Vanillin/caffeine detections in beverages. *Journal of Energy Storage*, **2022**, 45, 103791	7.8	3
6	Effect of Calcination Temperature on Surface Morphology of Ionic Liquid Assisted MgO Nanoparticles by Sol Gel Method. *Advanced Science Letters*, **2012**, 16, 244-248	0.1	3
5	Ultrasonic Dyeing of Enzyme Treated Organic Cotton Using Nyctanthes Arbor-Tristis. *Chemical Science Transactions*, **2013**, 2, 642-648	0.3	2
4	Effect of the Chemical Structure of the Oxidants on the Opto-electronic Properties of Polypyrrole Thin Film. *Porrime*, **2021**, 45, 443-449	1	2
3	Conformable on-skin supercapacitor-integrated, strain sensor based on multioxidant-functionalized thermoplastic polyurethane/reduced graphene oxide/polypyrrole composite films. *New Journal of Chemistry*,	3.6	1
2	Preparation and Characterization of Nano-size Polyreactive Blue MXR. *E-Journal of Chemistry*, **2012**, 9, 1336-1341		0
1	Styrene-based ternary composite elastomers functionalized with graphene oxide-polypyrrole under iron(III)-alkyl benzenesulfonate oxidants for supercapacitor integrated strain sensor system. *Journal of Energy Storage*, **2022**, 51, 104543	7.8	0