

## Arumugam Sivasamy

S Ramesh, HM Yadav, YJ Lee, GW Hong, A Kathalingam, A Sivasamy, ...

CSIR-Central Leather Research Institute
Adsorption
photodegradation
activated carbon
biomass
nanomaterials

	All	Since 2015
Citations	2485	1820
h-index	22	21
i10-index	39	33

TITLE	CITED BY	YEAR
Biomass-derived porous activated carbon from Syzygium cumini fruit shells and Chrysopogon zizanioides roots for high-energy density symmetric supercapacitors M Vinayagam, RS Babu, A Sivasamy, ALF de Barros Biomass and Bioenergy 143, 105838		2020
Fabrication of graphene nanosheets decorated by nitrogen-doped ZnO nanoparticles with enhanced visible photocatalytic activity for the degradation of Methylene Blue dye M Suresh, A Sivasamy Journal of Molecular Liquids 317, 114112	1	2020
Superparamagnetic nanocomposites derived from waste polyurethane foam for the removal of Rhodamine B: batch and continuous column studies P Shivaprasad, S Kaushik, A Sivasamy, S Nethaji Separation Science and Technology 55 (16), 2879-2889	2	2020
Degradation of Orange G and Malachite green dyes under visible light irradiation: Double layered core-shell nanoparticle as an efficient photocatalyst GA Suganya, A Sivasamy Indian Journal of Chemistry-Section A (IJCA) 59 (9), 1259-1264		2020
Novel homogeneous catalyst assisted sonocatalytic degradation of dye Direct Blue 71 R Bhavani, A Sivasamy Indian Journal of Chemistry-Section A (IJCA) 59 (9), 1265-1272		2020
Cubic nanostructure of Co3O4@ nitrogen doped graphene oxide/polyindole composite efficient electrodes for high performance energy storage applications S Ramesh, H Yadav, C Bathula, S Shinde, A Sivasamy, HS Kim, HS Kim, Journal of Materials Research and Technology 9 (5), 11464-11475	1	2020
Impact of polypyrrole incorporation on nickel oxide@ multi walled carbon nanotube composite for application in supercapacitors HM Yadav, S Ramesh, KA Kumar, S Shinde, S Sandhu, A Sivasamy, Polymer Testing 89, 106727		2020
Fe-Pd-Immobilized Al-Pillared Laponite Clay as an Efficient Catalyst for the Conversion of Furfural into Tetrahydrofurfuryl Alcohol S Arumugam, J Kuppan, M Devaraj, S Arumugam ChemistrySelect 5 (30), 9314-9322		2020
Preparation, characterization of Electrospun Polycaprolactone-nano Zinc oxide composite scaffolds for Osteogenic applications P Harikrishnan, A Sivasamy Nano-Structures & Nano-Objects 23, 100518	4	2020
Nanostructured Fe2O3@ nitrogen-doped multiwalled nanotube/cellulose nanocrystal composite material electrodes for high-performance supercapacitor applications RR Palem, S Ramesh, HM Yadav, JH Kim, A Sivasamy, HS Kim, JH Kim, Journal of Materials Research and Technology 9 (4), 7615-7627		2020
Biomaterial supported binary semiconductor metal oxide nanocomposite for Water remediation under solar irradiation NU Mary, MJ Umapathy, A Sivasamy Optik, 164219		2020
Porous materials of nitrogen doped graphene oxide@ SnO 2 electrode for capable supercapacitor application	9	2019

TITLE	CITED BY	YEAR
Scientific Reports 9 (1), 1-10		2040
In vitro and In vivo Osteogenecity of Nano-architectured Electrospun Polycaprolactone-Nano Zinc Oxide Scaffold for Oral-maxillofacial Applications P Harikrishnan, A Sivasamy Trends in Biomaterials & Artificial Organs 33 (1), 3-8	) 1	2019
Controlled synthesis of SnO2@ NiCo2O4/nitrogen doped multiwalled carbon nanotube hybrids as an active electrode material for supercapacitors S Ramesh, D Vikraman, K Karuppasamy, HM Yadav, A Sivasamy, HS Kim, Journal of Alloys and Compounds 794, 186-194	17	2019
Supercapacitor performance of MnO <sub>2</sub> /NiCo <sub>2</sub> O <sub>4</sub> @N-MWCNT hybrid nanocomposite electrodes A Kathalingam, S Ramesh, A Sivasamy, HS Kim, HS Kim Journal of Sol-Gel Science and Technology 91 (1), 154-164	6	2019
Removal of toxic pollutants using tannery sludge derived mesoporous activated carbon: Experimental and modelling studies V Ramya, D Murugan, C Lajapathirai, P Saravanan, A Sivasamy Journal of Environmental Chemical Engineering 7 (1), 102798	3	2019
Photocatalytic Degradation of 2, 4-Dicholorophenoxyacetic Acid: A Herbicide by Nanocrystalline semiconductor material under Visible Light Irradiation GAS Josephine, K Jayaprakash, M Suresh, A Sivasamy Materials Today: Proceedings 17, 345-353		2019
Effective charge separation in binary ZnO-Bi2O3 photocatalytic material for the treatment of simulated wastewater S Ramachandran, A Sivasamy Materials Today: Proceedings 17, 101-110		2019
Biocompatibility Studies of Nanoengineered Polycaprolactone and Nanohydroxyapatite Scaffold for Craniomaxillofacial Bone Regeneration P Harikrishnan, H Islam, A Sivasamy Journal of Craniofacial Surgery 30 (1), 265-269	6	2019
Activated carbon (prepared from secondary sludge biomass) supported semiconductor zinc oxide nanocomposite photocatalyst for reduction of Cr (VI) under visible light irradiation V Ramya, D Murugan, C Lajapathirai, A Sivasamy Journal of Environmental Chemical Engineering 6 (6), 7327-7337	10	2018
Synthesis, characterization of visible active MO hallow spheres by combustion technique G Thennarasu, A Sivasamy NanoR 1 (3), 1-14		2018
Concentration of whey protein from cheese whey effluent using ultrafiltration by combination of hydrophilic metal oxides and hydrophobic polymer LT Yogarathinam, A Gangasalam, AF Ismail, S Arumugam, A Narayanan Journal of Chemical Technology & Biotechnology 93 (9), 2576-2591	7	2018
Synthesis and Characterisation of Nano-Engineered Polycaprolactone-Nano Hydroxyapatite Scaffold for Bone Defect Application P Harikrishnan, A Raheja, A Sivasamy Materials Focus 7 (4), 485-490		2018
Rare earth doped semiconductor nanomaterials and its photocatalytic and antimicrobial activities SJ GA, G Tamilarasan, A Sivasamy, J Sridevi Journal of environmental chemical engineering 6 (4), 3907-3917	7	2018
Fourth International Conference on Advanced Oxidation Processes (AOP-2016), Dec, 17-20 2016, at Birla Institute of Technology and Science, Pilani, KK Birla Goa Campus, India H Prakash Journal of environmental chemical engineering 6 (3), 3529-3530	,	2018

TITLE	CITED BY	YEAR
Photocatalytic degradation of orange G dye using ZnO/biomass activated carbon nanocomposite  M Vinayagam, S Ramachandran, V Ramya, A Sivasamy Journal of environmental chemical engineering 6 (3), 3726-3734	32	2018
Visible light photocatalytic activities of BiOBr-activated carbon (derived from waste polyurethane) composites by hydrothermal process S Nethaji, G Tamilarasan, P Neehar, A Sivasamy Journal of Environmental Chemical Engineering 6 (3), 3735-3744	9	2018
Bismuth oxide nanoparticles decorated Graphene layers for the degradation of Methylene blue dye under visible light irradiations and antimicrobial activities M Suresh, A Sivasamy Journal of environmental chemical engineering 6 (3), 3745-3756	18	2018
Nanorod ZnO/SiC nanocomposite: an efficient catalyst for the degradation of an endocrine disruptor under UV and visible light irradiations G Meenakshi, A Sivasamy Journal of environmental chemical engineering 6 (3), 3757-3769	9	2018
Synthesis and characterization of nanocrystalline N-doped semiconductor metal oxide and its visible photocatalytic activity in the degradation of an organic dye S Ramachandran, A Sivasamy Journal of environmental chemical engineering 6 (3), 3770-3779	3	2018
Synthesis of nanocrystalline bismuth oxide and its visible photocatalytic activity in the degradation of an organic dye S Ramachandran, A Sivasamy Inorganic and Nano-Metal Chemistry 48 (4-5), 225-232		2018
Synthesis and characterization of high quality nano layered reduced graphene oxide by solvothermal method and it's antibacterial activity M Suresh, A Sivasamy Inorganic and Nano-Metal Chemistry 48 (4-5), 233-238		2018
Mn doped ZnO nano material: a highly visible light active photocatalyst for environmental abatment G Thennarasu, A Sivasamy Inorganic and Nano-Metal Chemistry 48 (4-5), 239-246	2	2018
Interfacial Charge Transfer and Effective Termination of Electron Recombination Process in $(ZnO)_{(1-x)/2}(Bi_2O_3)_X(Dy_2O_3)_{(1-x)/2}$ Heterostructured S Ramachandran, S Arumugam ACS omega 3 (5), 4798-4809	2	2018
Nanocrystalline ZnO as a visible active photocatalyst for the degradation of benzene-1, 4-diol S Ramachandran, A Sivasamy International Journal of Nanoscience 17 (01n02), 1760008	4	2018
Synthesis of Octa(maleimidophenyl) silsesquioxane—SiO <sub>2</sub> /TiO <sub>2</sub> Hybrid Nanocomposites: Adsorption Behavior for the Removal of an Organic Methylene Blue Dye S Ramesh, HS Kim, A Sivasamy, JH Kim Polymer-Plastics Technology and Engineering 57 (3), 185-195	4	2018
Visible photocatalytic activity of metal ion doped and undoped nano ZnO for the degradation of Acidal Navy Blue 3BR G Thennarasu, A Sivasamy NanoR 1 (1), 32-52		2018
Rare-Earth-Based MIS Type Core—Shell Nanospheres with Visible-Light-Driven Photocatalytic Activity through an Electron Hopping—Trapping Mechanism SJ GA, S Arumugam ACS omega 3 (1), 1090-1101	4	2018

TITLE	CITED BY	YEAR
Effect of ultrasonic pretreatment on secondary sludge and anaerobic biomass to enhance biogas production P Divyalakshmi, D Murugan, M Sivarajan, A Sivasamy, P Saravanan, Journal of Material Cycles and Waste Management 20 (1), 481-488	4	2018
Nanostructured Co3O4/nitrogen doped carbon nanotube composites for high-performance supercapacitors S Ramesh, Y Haldorai, A Sivasamy, HS Kim Materials Letters 206, 39-43	17	2017
Oxidation of organic dye using nanocrystalline rare earth metal ion doped CeO2 under UV and Visible light irradiations MP Kumar, GAS Josephine, A Sivasamy Journal of Molecular Liquids 242, 789-797	9	2017
Graphene oxide coated with porous iron oxide ribbons for 2, 4-Dichlorophenoxyacetic acid (2, 4-D) removal S Nethaji, A Sivasamy Ecotoxicology and environmental safety 138, 292-297	29	2017
Optimization and biokinetic studies on pretreatment of sludge for enhancing biogas production P Divyalakshmi, D Murugan, M Sivarajan, A Sivasamy, P Saravanan, International Journal of Environmental Science and Technology 14 (4), 813-822	4	2017
High-performance N-doped MWCNT/GO/cellulose hybrid composites for supercapacitor electrodes S Ramesh, A Sivasamy, HS Kim, JH Kim RSC advances 7 (78), 49799-49809	7	2017
Synthesis and characterization of zinc oxide nanorods and its photocatalytic activities towards degradation of 2, 4-D G Meenakshi, A Sivasamy Ecotoxicology and environmental safety 135, 243-251	17	2017
Nitrogen doped nanocrystalline semiconductor metal oxide: An efficient UV active photocatalyst for the oxidation of an organic dye using slurry Photoreactor S Ramachandran, A Sivasamy, BD Kumar Ecotoxicology and environmental safety 134, 445-454	6	2016
Enhanced visible photocatalytic activity of cotton ball like nano structured Cu doped ZnO for the degradation of organic pollutant G Thennarasu, A Sivasamy Ecotoxicology and environmental safety 134, 412-420	29	2016
Sonocatalytic degradation of malachite green oxalate by a semiconductor metal oxide nanocatalyst R Bhavani, A Sivasamy Ecotoxicology and environmental safety 134, 403-411	27	2016
Adsorption of malachite green onto chemically activated carbon prepared from waste biomass V Ramya, M Vinayagam, D Murugan, C Lajapathirai, P Saravanan, International Journal of Innovative Research in Science, Engineering and	1	2016
Preparation, characterization and enhanced photocatalytic activities of zinc oxide nano rods/silicon carbide composite under UV and visible light irradiations G Meenakshi, A Sivasamy, SJ GA, S Kavithaa Journal of Molecular Catalysis A: Chemical 411, 167-178	16	2016
Nanocrystalline semiconductor doped rare earth oxide for the photocatalytic degradation studies on Acid Blue 113: A di-azo compound under UV slurry photoreactor GAS Josephine, UM Nisha, G Meenakshi, A Sivasamy Ecotoxicology and Environmental Safety 121, 67-72	10	2015

TITLE	CITED BY	YEAR
In situ disruption approach on aerobic sludge biomass for excess sludge reduction in tannery effluent treatment plant P Divyalakshmi, D Murugan, M Sivarajan, A Sivasamy, P Saravanan, Chemical Engineering Journal 276, 130-136	15	2015
Kinetic studies on anaerobic co-digestion of ultrasonic disintegrated feed and biomass and its effect substantiated by microcalorimetry R Priyadarshini, L Vaishnavi, D Murugan, M Sivarajan, A Sivasamy, International journal of environmental science and technology 12 (9), 3029-3038	9	2015
Nanocrystalline ZnO doped lanthanide oxide: an efficient photocatalyst for the degradation of malachite green dye under visible light irradiation GAS Josephine, S Ramachandran, A Sivasamy Journal of Saudi Chemical Society 19 (5), 549-556	28	2015
Preparation and characterization of maleimide–polystyrene/SiO2–Al2O3 hybrid nanocomposites by an in situ sol–gel process and its antimicrobial activity S Ramesh, A Sivasamy, KY Rhee, SJ Park, D Hui Composites Part B: Engineering 75, 167-175	25	2015
Synthesis and characterization of nanolayered ZnO/ZnCr <sub>2</sub> O <sub>4</sub> metal oxide composites and its photocatalytic activity under visible light irradiation G Thennarasu, A Sivasamy Journal of Chemical Technology & Biotechnology 90 (3), 514-524	25	2015
Synthesis and characterization of nanolayered ZnO/ZnCr2O4 metal oxide composites and its photocatalytic activity under visible light irradiation.  T Ganesan, S Arumugam Journal of Chemical Technology and Biotechnology 90 (3), 514-524		2015
Nanocrystalline ZnO doped Dy2O3 a highly active visible photocatalyst: The role of characteristic f orbital's of lanthanides for visible photoactivity GAS Josephine, A Sivasamy Applied Catalysis B: Environmental 150, 288-297	33	2014
Nanocrystalline ZnO Doped on Lanthanide Oxide Dy <sub>2</sub> O <sub>3</sub> : A Novel and UV Light Active Photocatalyst for Environmental Remediation GAS Josephine, A Sivasamy Environmental Science & Technology Letters 1 (2), 172-178	34	2014
Removal of hexavalent chromium from aqueous solution using activated carbon prepared from walnut shell biomass through alkali impregnation processes S Nethaji, A Sivasamy Clean Technologies and Environmental Policy 16 (2), 361-368	29	2014
Semiconductor metal oxide nanoparticles assisted sonocatalytic process for degradation of an organic dye GV Aatral, R Bhavani, A Sivasamy J. Of Scientific & Engineering Research 5 (5), 187-192	1	2014
Photodegradation Studies on Orange G and Acid Blue 113: New Doped Rare Earth Nanometal Oxides as Visible Light Active Photo Catalyst GA Suganya Josephine, A Sivasamy Advanced Materials Research 938, 257-262		2014
Removal of herbicide (2, 4-dichlorophenoxyacetic acid) in aqueous solution using magnetite activated carbon derived from waste biomass S Nethaji, A Sivasamy Int. J. Appl. Eng. Res 1, 65-70	3	2014
Metal ion doped semiconductor metal oxide nanosphere particles prepared by soft chemical method and its visible light photocatalytic activity in degradation of phenol G Thennarasu, A Sivasamy Powder technology 250, 1-12	30	2013

TITLE	ITED BY	YEAR
Preparation of char from lotus seed biomass and the exploration of its dye removal capacity through batch and column adsorption studies S Nethaji, A Sivasamy, RV Kumar, AB Mandal Environmental Science and Pollution Research 20 (6), 3670-3678	17	2013
Preparation and characterization of corn cob activated carbon coated with nano-sized magnetite particles for the removal of Cr (VI) S Nethaji, A Sivasamy, AB Mandal Bioresource technology 134, 94-100	214	2013
Synthesis, characterization and catalytic activity of nano size semiconductor metal oxide in a visible light batch slurry photoreactor G Thennarasu, A Sivasamy, S Kavithaa Journal of molecular liquids 179, 18-26	15	2013
Adsorption isotherms, kinetics and mechanism for the adsorption of cationic and anionic dyes onto carbonaceous particles prepared from Juglans regia shell biomass S Nethaji, A Sivasamy, AB Mandal International Journal of Environmental Science and Technology 10 (2), 231-242	233	2013
Ultrasonic sludge disintegration in the presence of iron (II) as catalyst CL Rai, A Sivasamy, S Rekha International Journal of Environment and Waste Management 12 (1), 65-76	1	2013
Synthesis and characterization of maleimide-functionalized polystyrene-SiO <sub>2</sub> /TiO <sub>2</sub> hybrid nanocomposites by sol—gel process S Ramesh, A Sivasamy, JH Kim Nanoscale research letters 7 (1), 350	9	2012
Photocatalytic degradation of Orange G dye under solar light using nanocrystalline semiconductor metal oxide G Thennarasu, S Kavithaa, A Sivasamy Environmental Science and Pollution Research 19 (7), 2755-2765	25	2012
Equilibrium, kinetic and thermodynamic studies on the biosorption of reactive acid dye on Enteromorpha flexuosa and Gracilaria corticata A Sivasamy, S Nethaji, LLJL Nisha Environmental Science and Pollution Research 19 (5), 1687-1695	19	2012
Synthesis and characterization of poly (n-vinyl-2-pyrrolidone)-organo-modified montmorillonite (OMMT) clay hybrid nanocomposites S Ramesh, A Sivasamy, M Alagar, F Chandrasekar Journal of composite materials 45 (14), 1483-1489	7	2011
Adsorptive removal of an acid dye by lignocellulosic waste biomass activated carbon: equilibrium and kinetic studies S Nethaji, A Sivasamy Chemosphere 82 (10), 1367-1372	101	2011
Biosorption of an azo dye by Aspergillus niger and Trichoderma sp. fungal biomasses A Sivasamy, N Sundarabal Current microbiology 62 (2), 351-357	40	2011
Adsorption of Malachite Green dye onto activated carbon derived from Borassus aethiopum flower biomass S Nethaji, A Sivasamy, G Thennarasu, S Saravanan Journal of Hazardous Materials 181 (1-3), 271-280	248	2010
Synthesis and characterization of 3, 3'-bis (3-maleimidophenyl) phenyl phosphine oxide (BMI)/1, 3-cyanatobenzene epoxy inter-crosslinked matrices for engineering applications S Ramesh, M Alagar, A Sivasamy High Performance Polymers 22 (6), 635-648	4	2010
In situ biodecolorization kinetics of Acid Red 66 in aqueous solutions by Trametes versicolor M Sukumar, A Sivasamy, G Swaminathan Journal of hazardous materials 167 (1-3), 660-663	17	2009

TITLE	CITED BY	YEAR
Catalytic applications in the production of biodiesel from vegetable oils A Sivasamy, KY Cheah, P Fornasiero, F Kemausuor, S Zinoviev, ChemSusChem 2 (4), 278-300	331	2009
Catalytic Applications in Biodiesel Production from Vegetable Oils: A Review A Sivasamy, Y CHEAH K, P Fornasiero, F Kemausuor, S Zinoviev,		2009
Pollution prevention by salt free preservation of raw goatskins through stepwise drying CL Rai, M Surianarayanan, A Sivasamy, F Chandrasekaran International Journal of Environmental Engineering 1 (3), 295-305	5	2009
Biological decolorization of dye house effluent by Trametes sp. isolated from contaminated soil  M Sukumar, A Sivasamy, G Swaminathan RESEARCH JOURNAL OF BIOTECHNOLOGY 3 (3), 53-58	1	2008
Removal of rhodamine B from aqueous solution by adsorption onto sodium montmorillonite PP Selvam, S Preethi, P Basakaralingam, N Thinakaran, A Sivasamy, Journal of Hazardous Materials 155 (1-2), 39-44	223	2008
OF FUTURE BIOFUELS AND BIO-BASED CHEMICALS G Centi, P Fornasiero, M Kaltschmitt, S Miertus, F Müller-Langer,		2008
Process Optimization for the decolorization of Bismarck brown by Phanerochaete chrysosporium  M Sukumar, A Sivasamy, G Swaminathan, CR Rajasekar, M Saravanan RESEARCH JOURNAL OF BIOTECHNOLOGY 2 (3), 35-39		2007
Bio-fuels, technology status and future trends, technology assessment and decision support tools S Arumugam, S Zinoviev, P Foransiero, M Stanislav, F Müller-Langer, International Centre for Science and High Technology, United Nations	5	2007
Background Paper on Biofuel Production Technologies Working document November 2007, Area of Chmeistry-UNIDO S Zinoviev, S Sivasamy Arumugam, S Miertus	2	2007
Bio fuels technology status and future trends S Arumugam, S Zinoviev, P Foransiero, S Miertus, F Müller-Langer, Technology Assessment and Decision Support Tools. ICS-UNIDO. Trieste, Italy, 142	12	2007
Biofuel production technologies S Zinoviev, S Arumugam, S Miertus Background paper, Dubrovik, Croatia	5	2007
Bio-Fuels: Technology Status and Future Trends A Sivasamy, S Zinoviev, P Foransiero, S Miertus, F Müller-Langer, Technology Assessment and Decision Support Tools	6	2007
Decolorization of textile dye effluent by genetically improved bacterial strains M Sukumar, A Sivasamy, G Swaminathan Applied biochemistry and biotechnology 136 (1), 53-62	14	2007
Removal of safranin basic dye from aqueous solutions by adsorption onto corncob activated carbon S Preethi, A Sivasamy, S Sivanesan, V Ramamurthi, G Swaminathan Industrial & engineering chemistry research 45 (22), 7627-7632	142	2006
Influence of co-substrates for the decolorization of dye house effluent by Phanerochaete chrysoporium and Trametes versicolor M Sukumar, A Sivasamy, G Swaminathan POLLUTION RESEARCH 25 (3), 557	4	2006

TITLE	CITED BY	YEAR
Effects of nonpolar solvents on the solubilization of pepsin into bis (2-ethylhexyl) sodium sulfosuccinate and cetyltrimethylammonium bromide reverse micelles A Sivasamy, PI Rasoanto, BV Ramabrahmam, G Swaminathan Journal of solution chemistry 34 (1), 33-42	6	2005
Graph Reconstruction - Some New Developments* S Ramachandran, S Arumugam AKCE International Journal of Graphs and Combinatorics 1 (1), 51-61	14	2004
Disintegration of tannery sludge by acoustic cavitationan approach for sludge management CL Rai, A Sivasamy, PG Rao Journal of the American Leather Chemists Association	t 5	2004
Preparation, characterization, and surface and biological properties of <i>N</i> -stearoyl amino acid A Sivasamy, M Krishnaveni, PG Rao Journal of the American Oil Chemists' Society 78 (9), 897-902	ds 22	2001
Studies on defluoridation of water by coal-based sorbents A Sivasamy, KP Singh, D Mohan, M Maruthamuthu Journal of Chemical Technology and Biotechnology 76 (7), 717-722	103	2001
Invitation to graph theory S Arumugam, S Ramachandran New Gamma Publishing House	54	1997
Defluoridation by zeolites and apophyllite M Maruthamuthu, A Sivasamy Fluoride 27 (2), 81-88	12	1994