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Area of Specialization: Toxicology Studies

LIST OF PUBLICATIONS IN THE LAST FIVE YEARS

1.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

2.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

3.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

4.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

5. 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

6.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 2020

7.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

8.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

9.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

10.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, ...

11. Biomaterial supported binary semiconductor metal oxide nanocomposite for Water remediation under solar irradiation

NU Mary, MJ Umapathy, A Sivasamy

Optik, 164219 2020

12. Porous materials of nitrogen doped graphene oxide@ SnO₂ electrode for capable supercapacitor application

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

Scientific Reports 9 (1), 1-10 9 2019

13. In vitro and In vivo Osteogenicity of Nano-architected 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

14. 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

15. Supercapacitor performance of MnO₂/NiCo₂O₄@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

16. 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

17. Photocatalytic Degradation of 2, 4-Dichlorophenoxyacetic 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

18. 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

19. 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

20. 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

21. Synthesis, characterization of visible active MO hollow spheres by combustion technique

G Thennarasu, A Sivasamy

NanoR 1 (3), 1-14 2018

22. 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

23.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

24.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

25.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

26.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 30 2018

27.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

28. 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

29. 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 8 2018

30. 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

31. 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

32. Synthesis and characterization of high quality nano layered reduced graphene oxide by solvothermal method and its antibacterial activity

M Suresh, A Sivasamy

Inorganic and Nano-Metal Chemistry 48 (4-5), 233-238 2018

33. Mn doped ZnO nano material: a highly visible light active photocatalyst for environmental abatement

G Thennarasu, A Sivasamy

Inorganic and Nano-Metal Chemistry 48 (4-5), 239-246 2 2018

34. Interfacial Charge Transfer and Effective Termination of Electron Recombination Process in $(\text{ZnO})(1-x)/2(\text{Bi}_2\text{O}_3)x(\text{Dy}_2\text{O}_3)(1-x)/2$ Heterostructured ...

S Ramachandran, S Arumugam

ACS omega 3 (5), 4798-4809 2 2018

35. 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

36. Synthesis of Octa(maleimidophenyl) silsesquioxane-SiO₂/TiO₂ 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

37. 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

38. 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

39. 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

40. 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

41. 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

42. 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 27 2017

43. 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

44. 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

45.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 16 2017

46.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

47.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 28 2016

48.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

49.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

50.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

51. 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

52. 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

53. 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

54. 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

55. 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

56. Synthesis and characterization of nanolayered ZnO/ZnCr₂O₄ metal oxide composites and its photocatalytic activity under visible light irradiation

G Thennarasu, A Sivasamy

Journal of Chemical Technology & Biotechnology 90 (3), 514-524.