

Sai Sathish Ramamurthy

List of Publications by Year in descending order

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84
papers

1,804
citations

186265
28
h-index

330143
37
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86
all docs

86
docs citations

86
times ranked

1326
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium and Kinetic Studies for Fluoride Adsorption from Water on Zirconium Impregnated Coconut Shell Carbon. <i>Separation Science and Technology</i> , 2007, 42, 769-788.	2.5	89
2	Superior Resonant Nanocavities Engineering on the Photonic Crystal-Coupled Emission Platform for the Detection of Femtomolar Iodide and Zeptomolar Cortisol. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34323-34336.	8.0	61
3	Femtomolar Detection of Spermidine Using Au Decorated SiO ₂ Nanohybrid on Plasmon-Coupled Extended Cavity Nanointerface: A Smartphone-Based Fluorescence Dequenching Approach. <i>Langmuir</i> , 2020, 36, 2865-2876.	3.5	59
4	Amplification of Surface Plasmon Coupled Emission from Graphene-Ag Hybrid Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17205-17210.	3.1	55
5	Defluoridation of Water Using Zirconium Impregnated Coconut Fiber Carbon. <i>Separation Science and Technology</i> , 2008, 43, 3676-3694.	2.5	54
6	Metal-Free, Graphene Oxide-Based Tunable Soliton and Plasmon Engineering for Biosensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17046-17061.	8.0	52
7	Silver Soret Nanoparticles for Femtomolar Sensing of Glutathione in a Surface Plasmon-Coupled Emission Platform. <i>ACS Applied Nano Materials</i> , 2020, 3, 4329-4341.	5.0	46
8	Mobile Phone-Based Picomolar Detection of Tannic Acid on Nd ₂ O ₃ Nanorod-Metal Thin-Film Interfaces. <i>ACS Applied Nano Materials</i> , 2019, 2, 4613-4625.	5.0	45
9	A fluorescent fluoride ion probe based on a self-organized ensemble of 5-hydroxyflavone-Al(III) complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 282-285.	3.9	41
10	Low-dimensional carbon spacers in surface plasmon-coupled emission with femtomolar sensitivity and 1000-fold fluorescence enhancements. <i>Chemical Communications</i> , 2015, 51, 7809-7811.	4.1	40
11	Green synthesis of silver nanoparticles decorated reduced graphene oxide nanocomposite as an electrocatalytic platform for the simultaneous detection of dopamine and uric acid. <i>Materials Chemistry and Physics</i> , 2020, 252, 123302.	4.0	40
12	Bloch Surface Waves and Internal Optical Modes-Driven Photonic Crystal-Coupled Emission Platform for Femtomolar Detection of Aluminum Ions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7341-7352.	3.1	39
13	A Self-Organized Ensemble of Fluorescent 3-Hydroxyflavone-Al (III) Complex as Sensor for Fluoride and Acetate Ions. <i>Journal of Fluorescence</i> , 2006, 17, 1-5.	2.5	37
14	Nanostructure effect on quenching and dequenching of quantum emitters on surface plasmon-coupled interface: A comparative analysis using gold nanospheres and nanostars. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114276.	2.7	37
15	Plasmon-Coupled Silver Nanoparticles for Mobile Phone-Based Attomolar Sensing of Mercury Ions. <i>ACS Applied Nano Materials</i> , 2021, 4, 8066-8080.	5.0	36
16	Platinum nanoparticles-decorated graphene-modified glassy carbon electrode toward the electrochemical determination of ascorbic acid, dopamine, and paracetamol. <i>Comptes Rendus Chimie</i> , 2019, 22, 58-72.	0.5	34
17	Photoplasmonic assembly of dielectric-metal, Nd ₂ O ₃ -Gold soret nanointerfaces for dequenching the luminophore emission. <i>Nanophotonics</i> , 2021, 10, 3417-3431.	6.0	33
18	Cellphone-Aided Attomolar Zinc Ion Detection Using Silkworm Protein-Based Nanointerface Engineering in a Plasmon-Coupled Dequenched Emission Platform. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14959-14974.	6.7	33

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19	Low-lignin mutant biomass resources: Effect of compositional changes on ethanol yield. <i>Industrial Crops and Products</i> , 2014, 61, 1-8.	5.2	32
20	Purcell Factor: A Tunable Metric for Plasmon-Coupled Fluorescence Emission Enhancements in Cermet Nanocavities. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2908-2913.	3.1	32
21	Plasmon-Coupled Directional Emission from Soluplus-Mediated AgAu Nanoparticles for Attomolar Sensing Using a Smartphone. <i>ACS Applied Nano Materials</i> , 2021, 4, 5940-5953.	5.0	32
22	Multifunctional hybrid soret nanoarchitectures for mobile phone-based picomolar Cu ²⁺ ion sensing and dye degradation applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 132, 114764.	2.7	32
23	A water-soluble fluorescent fluoride ion probe based on Alizarin Red S-Al(III) complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 457-461.	3.9	31
24	Synergistic coupling of titanium carbonitride nanocubes and graphene oxide for 800-fold fluorescence enhancements on smartphone based surface plasmon-coupled emission platform. <i>Materials Letters</i> , 2021, 298, 130008.	2.6	31
25	Spectral resolution of molecular ensembles under ambient conditions using surface plasmon coupled fluorescence emission. <i>Applied Optics</i> , 2009, 48, 5348.	2.1	29
26	Surface-enhanced Raman scattering platform operating over wide pH range with minimal chemical enhancement effects: Test case of tyrosine. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 826-836.	2.5	29
27	Green synthesis of copper nanoparticles using aqueous extracts from <i>Hyptis suaveolens</i> (L.). <i>Materials Chemistry and Physics</i> , 2022, 280, 125795.	4.0	29
28	Synthesis and characterization of gold graphene composite with dyes as model substrates for decolorization: A surfactant free laser ablation approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 365-371.	3.9	28
29	Earth Abundant Iron-Rich N-Doped Graphene Based Spacer and Cavity Materials for Surface Plasmon-Coupled Emission Enhancements. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12324-12329.	8.0	28
30	Plasmonic-Silver Sorets and Dielectric-Nd ₂ O ₃ nanorods for Ultrasensitive Photonic Crystal-Coupled Emission. <i>Materials Research Bulletin</i> , 2022, 145, 111558.	5.2	27
31	High-resolution surface plasmon coupled resonant filter for monitoring of fluorescence emission from molecular multiplexes. <i>Applied Physics Letters</i> , 2009, 94, 223113.	3.3	26
32	Cellphone Monitoring of Multi-Qubit Emission Enhancements from Pd-Carbon Plasmonic Nanocavities in Tunable Coupling Regimes with Attomolar Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23281-23288.	8.0	26
33	Engineering of coherent plasmon resonances from silver soret colloids, graphene oxide and Nd ₂ O ₃ nanohybrid architectures studied in mobile phone-based surface plasmon-coupled emission platform. <i>Materials Letters</i> , 2021, 304, 130632.	2.6	25
34	Carbon Nanotube-Zirconium Dioxide Hybrid for Defluoridation of Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3552-3559.	0.9	24
35	Gold Decorated Graphene by Laser Ablation for Efficient Electrocatalytic Oxidation of Methanol and Ethanol. <i>Electroanalysis</i> , 2014, 26, 1850-1857.	2.9	24
36	Purcell factor based understanding of enhancements in surface plasmon-coupled emission with DNA architectures. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 681-684.	2.8	23

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37	Macro-micro fungal cultures synergy for innovative cellulase enzymes production and biomass structural analyses. <i>Renewable Energy</i> , 2017, 103, 766-773.	8.9	23
38	Fluoride ion detection by 8-hydroxyquinolineâ€“Zr(IV)â€“EDTA complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 565-570.	3.9	22
39	Glucireâ€™-mediated heterometallic AgAu nanohybrid engineering for femtomolar cysteine detection using smartphone-based plasmonics technology. <i>Materials Chemistry and Physics</i> , 2022, 279, 125747.	4.0	22
40	Integrated Photo-Plasmonic coupling of bioinspired Sharp-Edged silver Nano-particles with Nano-films in extended cavity functional interface for Cellphone-aided femtomolar sensing. <i>Materials Letters</i> , 2022, 316, 132025.	2.6	21
41	Spot-free catalysis using gold carbon nanotube & gold graphene composites for hydrogen evolution reaction. <i>Journal of Power Sources</i> , 2015, 288, 441-450.	7.8	20
42	Anti-fouling response of goldâ€“carbon nanotubes composite for enhanced ethanol electrooxidation. <i>Journal of Power Sources</i> , 2014, 271, 305-311.	7.8	19
43	1-Minute Spacer Layer Engineering for Tunable Enhancements in Surface Plasmon-Coupled Emission. <i>Plasmonics</i> , 2015, 10, 489-494.	3.4	18
44	Agâ€“CNT Architectures for Attomolar Dopamine Detection and 100â€“Fold Fluorescence Enhancements with Cellphoneâ€“Based Surface Plasmonâ€“Coupled Emission Platform. <i>ChemPhysChem</i> , 2016, 17, 2791-2794.	2.1	18
45	Ultra-Selective Dopamine Detection in an Excess of Ascorbic Acid and Uric Acid Using Pristine Palladium Nanoparticles Decorated Graphene Modified Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2015, 162, H651-H660.	2.9	17
46	Cellphone-based attomolar tyrosine sensing based on Kollidon-mediated bimetallic nanorod in plasmon-coupled directional and polarized emission architecture. <i>Materials Chemistry and Physics</i> , 2022, 285, 126129.	4.0	17
47	Ruthenium decorated carbon nanoink as highly active electrocatalyst in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 23007-23014.	7.1	16
48	Ag-protein plasmonic architectures for surface plasmon-coupled emission enhancements and Fabry-Perot mode-coupled directional fluorescence emission. <i>Chemical Physics Letters</i> , 2017, 685, 139-145.	2.6	16
49	Rapid and lowâ€“cost sampling for detection of airborne SARSâ€“CoVâ€“2 in dehumidifier condensate. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3029-3036.	3.3	16
50	C ₆₀ as an active smart spacer material on silver thin film substrates for enhanced surface plasmon coupled emission. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10022-10027.	2.8	15
51	Ultra-low casting of Pt based nano-ink for electrooxidation of glycerol and ethylene glycol fuels in alkaline medium. <i>Fuel</i> , 2015, 158, 659-663.	6.4	14
52	Smartphone Plasmonics for Doxycycline Detection with Silver-Lignin Bio-spacer at Attomolar Sensitivity. <i>Plasmonics</i> , 2018, 13, 955-960.	3.4	14
53	Mobile Phone Camera-Based Detection of Surface Plasmon-Coupled Fluorescence from Streptavidin Magnetic Nanoparticles and Graphene Oxide Hybrid Nanointerface. <i>ECS Transactions</i> , 2022, 107, 3223-3232.	0.5	14
54	Transdermal sensing: in-situ non-invasive techniques for monitoring of human biochemical status. <i>Current Opinion in Biotechnology</i> , 2021, 71, 198-205.	6.6	12

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55	Studies of Surface-Adsorbed Fluorescently Labeled Casein and Concanavalin A Using Surface Plasmon-Coupled Emission. <i>Plasmonics</i> , 2010, 5, 383-387.	3.4	11
56	Solution deposition of nanometer scale silver films as an alternative to vapor deposition for plasmonic excitation. <i>Thin Solid Films</i> , 2010, 518, 3772-3777.	1.8	11
57	Low-Cost Plasmonic Carbon Spacer for Surface Plasmon-Coupled Emission Enhancements and Ethanol Detection: a Smartphone Approach. <i>Plasmonics</i> , 2018, 13, 519-524.	3.4	11
58	Solution-Deposited Thin Silver Films on Plastic Surfaces for Low-Cost Applications in Plasmon-Coupled Emission Sensors. <i>Plasmonics</i> , 2009, 4, 127-133.	3.4	10
59	Engineering of Exciton-Plasmon Coupling Using 2D-WS ₂ Nanosheets for 1000-Fold Fluorescence Enhancement in Surface Plasmon-Coupled Emission Platforms. <i>Langmuir</i> , 2021, 37, 1954-1960.	3.5	10
60	Surface Plasmon-Coupled Dual Emission Platform for Ultrafast Oxygen Monitoring after SARS-CoV-2 Infection. <i>ACS Sensors</i> , 2021, 6, 4360-4368.	7.8	10
61	Biocompatible Gellucire [®] Inspired Bimetallic Nanohybrids for Augmented Fluorescence Emission Based on Graphene Oxide Interfacial Plasmonic Architectures. <i>ECS Transactions</i> , 2022, 107, 4527-4535.	0.5	10
62	Identification of clinical and psychosocial characteristics associated with perinatal depression in the south Indian population. <i>General Hospital Psychiatry</i> , 2020, 66, 161-170.	2.4	9
63	High Refractive Index Dielectric TiO ₂ and Graphene Oxide as Salient Spacers for >300-fold Enhancements. , 2021, , .		9
64	Green synthesis of a novel porous gold-curcumin nanocomposite for super-efficient alcohol oxidation. <i>Nano Energy</i> , 2022, 94, 106966.	16.0	9
65	Low-Cost Plastic Plasmonic Substrates for Operation in Aqueous Environments. <i>Applied Spectroscopy</i> , 2010, 64, 1234-1237.	2.2	8
66	Silver-graphene oxide based plasmonic spacer for surface plasmon-coupled fluorescence emission enhancements. <i>Materials Research Express</i> , 2017, 4, 065002.	1.6	7
67	Ultra-Amplification of Surface Plasmon Coupled Emission Using an Engineered Graphene-Silver Thin Film Hybrid. , 2012, , .		5
68	Fractal Carbon Islands on Plastic Substrates for Enhancement in Directional and Beaming Fluorescence Emission. <i>ACS Applied Nano Materials</i> , 2019, 2, 6103-6109.	5.0	5
69	Electrochemical Determination of Ethanol by a Palladium Modified Graphene Nanocomposite Glassy Carbon Electrode. <i>Analytical Letters</i> , 2017, 50, 350-363.	1.8	4
70	Task-sharing to screen perinatal depression in resource limited setting in India: Comparison of outcomes based on screening by non-expert and expert rater. <i>Asian Journal of Psychiatry</i> , 2021, 62, 102738.	2.0	4
71	30 seconds procedure for decoration of titania nanotube with noble metals as metal-dielectric spacer materials towards tunable Purcell Factor and plasmon-coupled emission enhancement. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114868.	2.7	4
72	Concentration Effect in Surface Plasmon-Coupled Phosphorescence (SPCP) Emission Engineering with Augmented S-Polarization from N-Heterocyclic Carbene Platinum(II) Complexes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16681-16688.	3.1	3

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73	Effect of mode of administration on Edinburgh Postnatal Depression Scale in the South Indian population: A comparative study on self-administered and interviewer-administered scores. Asian Journal of Psychiatry, 2021, 66, 102890.	2.0	3
74	What do masks mask? A study on transdermal CO2 monitoring. Medical Engineering and Physics, 2021, 98, 50-56.	1.7	3
75	Engineering metal-dielectric nanostructures involving silver decorated Halloysite for augmented surface plasmon-coupled directional emission. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 131, 114718.	2.7	2
76	Novel Synthesis of Nanoparticles for Enhancements in Surface Plasmon Coupled Emission. , 2014, , .		1
77	Spacer layer engineering for ultrasensitive Hg(II) detection on surface plasmon-coupled emission platform. Nanotechnology Reviews, 2017, 6, 331-338.	5.8	1
78	Synergistic Hybrid Catalyst for Ethanol Detection: Enhanced Performance of Platinum Palladium Bimetallic Nanoparticles Decorated Graphene on Glassy Carbon Electrode. Journal of Analytical Chemistry, 2018, 73, 266-276.	0.9	0
79	Real-Time Monitoring of Transdermal CO2 Emission Rate While Exercising and Resting with a Mask. ECS Meeting Abstracts, 2021, MA2021-01, 2038-2038.	0.0	0
80	Electrodeposition of Gold Nanoparticles on Halloysite Nanotubes Modified Glassy Carbon Electrode for Detection of Dopamine and Serotonin. ECS Meeting Abstracts, 2021, MA2021-01, 1442-1442.	0.0	0
81	Surface Plasmon-Coupled Emission from Rhodamine- 6G Aggregates for Ratiometric Detection of Ethanol Vapors. IFMBE Proceedings, 2010, , 309-312.	0.3	0
82	Endophytic Fungi from Aegle marmelos Plant: A Potent and Innovative Platform for Enhanced Cellulolytic Enzyme Production. Journal of Technology Innovations in Renewable Energy, 0, 7, 7-18.	0.2	0
83	Review Paper on Surface Water-Quality Assessment of Chitravati River after the Establishment of Check-Dam in Puttaparthi, Andhra Pradesh. Journal of Ecophysiology and Occupational Health, 2020, 20, 209-221.	0.1	0
84	Enhanced Hydrogen Evolution Reaction By Porous Curcumin Enveloped Gold Nanoparticles. ECS Meeting Abstracts, 2021, MA2021-02, 1884-1884.	0.0	0