

Sai Sathish Ramamurthy

List of Publications by Year in descending order

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1,804
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186265
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times ranked

1326
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic-Silver Sorets and Dielectric-Nd ₂ O ₃ nanorods for Ultrasensitive Photonic Crystal-Coupled Emission. Materials Research Bulletin, 2022, 145, 111558.	5.2	27
2	Green synthesis of copper nanoparticles using aqueous extracts from Hyptis suaveolens (L.). Materials Chemistry and Physics, 2022, 280, 125795.	4.0	29
3	Gelucire [®] -mediated heterometallic AgAu nano hybrid engineering for femtomolar cysteine detection using smartphone-based plasmonics technology. Materials Chemistry and Physics, 2022, 279, 125747.	4.0	22
4	Green synthesis of a novel porous gold-curcumin nanocomposite for super-efficient alcohol oxidation. Nano Energy, 2022, 94, 106966.	16.0	9
5	Integrated Photo-Plasmonic coupling of bioinspired Sharp-Edged silver Nano-particles with Nano-films in extended cavity functional interface for Cellphone-aided femtomolar sensing. Materials Letters, 2022, 316, 132025.	2.6	21
6	Cellphone-based attomolar tyrosine sensing based on Kollidon-mediated bimetallic nanorod in plasmon-coupled directional and polarized emission architecture. Materials Chemistry and Physics, 2022, 285, 126129.	4.0	17
7	Mobile Phone Camera-Based Detection of Surface Plasmon-Coupled Fluorescence from Streptavidin Magnetic Nanoparticles and Graphene Oxide Hybrid Nanointerface. ECS Transactions, 2022, 107, 3223-3232.	0.5	14
8	Biocompatible Gellucire [®] Inspired Bimetallic Nanohybrids for Augmented Fluorescence Emission Based on Graphene Oxide Interfacial Plasmonic Architectures. ECS Transactions, 2022, 107, 4527-4535.	0.5	10
9	Engineering of Exciton-Plasmon Coupling Using 2D-WS ₂ Nanosheets for 1000-Fold Fluorescence Enhancement in Surface Plasmon-Coupled Emission Platforms. Langmuir, 2021, 37, 1954-1960.	3.5	10
10	Metal-Free, Graphene Oxide-Based Tunable Soliton and Plasmon Engineering for Biosensing Applications. ACS Applied Materials & Interfaces, 2021, 13, 17046-17061.	8.0	52
11	High Refractive Index Dielectric TiO ₂ and Graphene Oxide as Salient Spacers for > 300-fold Enhancements. , 2021, , .		9
12	Real-Time Monitoring of Transdermal CO ₂ Emission Rate While Exercising and Resting with a Mask. ECS Meeting Abstracts, 2021, MA2021-01, 2038-2038.	0.0	0
13	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
14	Rapid and low-cost sampling for detection of airborne SARS-CoV-2 in dehumidifier condensate. Biotechnology and Bioengineering, 2021, 118, 3029-3036.	3.3	16
15	Plasmon-Coupled Directional Emission from Soluplus-Mediated AgAu Nanoparticles for Attomolar Sensing Using a Smartphone. ACS Applied Nano Materials, 2021, 4, 5940-5953.	5.0	32
16	Concentration Effect in Surface Plasmon-Coupled Phosphorescence (SPCP) Emission Engineering with Augmented S-Polarization from N-Heterocyclic Carbene Platinum(II) Complexes. Journal of Physical Chemistry C, 2021, 125, 16681-16688.	3.1	3
17	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
18	Plasmon-Coupled Silver Nanoparticles for Mobile Phone-Based Attomolar Sensing of Mercury Ions. ACS Applied Nano Materials, 2021, 4, 8066-8080.	5.0	36

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19	Task-sharing to screen perinatal depression in resource limited setting in India: Comparison of outcomes based on screening by non-expert and expert rater. Asian Journal of Psychiatry, 2021, 62, 102738.	2.0	4
20	Multifunctional hybrid soret nanoarchitectures for mobile phone-based picomolar Cu ²⁺ ion sensing and dye degradation applications. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 132, 114764.	2.7	32
21	Photoplasmonic assembly of dielectric-metal, Nd ₂ O ₃ -Gold soret nanointerfaces for dequenching the luminophore emission. Nanophotonics, 2021, 10, 3417-3431.	6.0	33
22	Synergistic coupling of titanium carbonitride nanocubes and graphene oxide for 800-fold fluorescence enhancements on smartphone based surface plasmon-coupled emission platform. Materials Letters, 2021, 298, 130008.	2.6	31
23	Transdermal sensing: in-situ non-invasive techniques for monitoring of human biochemical status. Current Opinion in Biotechnology, 2021, 71, 198-205.	6.6	12
24	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. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114868.	2.7	4
25	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. Materials Letters, 2021, 304, 130632.	2.6	25
26	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
27	Surface Plasmon-Coupled Dual Emission Platform for Ultrafast Oxygen Monitoring after SARS-CoV-2 Infection. ACS Sensors, 2021, 6, 4360-4368.	7.8	10
28	Cellphone-Aided Attomolar Zinc Ion Detection Using Silkworm Protein-Based Nanointerface Engineering in a Plasmon-Coupled Dequenched Emission Platform. ACS Sustainable Chemistry and Engineering, 2021, 9, 14959-14974.	6.7	33
29	What do masks mask? A study on transdermal CO ₂ monitoring. Medical Engineering and Physics, 2021, 98, 50-56.	1.7	3
30	Enhanced Hydrogen Evolution Reaction By Porous Curcumin Enveloped Gold Nanoparticles. ECS Meeting Abstracts, 2021, MA2021-02, 1884-1884.	0.0	0
31	Identification of clinical and psychosocial characteristics associated with perinatal depression in the south Indian population. General Hospital Psychiatry, 2020, 66, 161-170.	2.4	9
32	Nanostructure effect on quenching and dequenching of quantum emitters on surface plasmon-coupled interface: A comparative analysis using gold nanospheres and nanostars. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114276.	2.7	37
33	Green synthesis of silver nanoparticles decorated reduced graphene oxide nanocomposite as an electrocatalytic platform for the simultaneous detection of dopamine and uric acid. Materials Chemistry and Physics, 2020, 252, 123302.	4.0	40
34	Femtomolar Detection of Spermidine Using Au Decorated SiO ₂ Nanohybrid on Plasmon-Coupled Extended Cavity Nanointerface: A Smartphone-Based Fluorescence Dequenching Approach. Langmuir, 2020, 36, 2865-2876.	3.5	59
35	Superior Resonant Nanocavities Engineering on the Photonic Crystal-Coupled Emission Platform for the Detection of Femtomolar Iodide and Zeptomolar Cortisol. ACS Applied Materials & Interfaces, 2020, 12, 34323-34336.	8.0	61
36	Bloch Surface Waves and Internal Optical Modes-Driven Photonic Crystal-Coupled Emission Platform for Femtomolar Detection of Aluminum Ions. Journal of Physical Chemistry C, 2020, 124, 7341-7352.	3.1	39

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37	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
38	Review Paper on Surface Water-Quality Assessment of Chitravati River after the Establishment of Check-Dam in Puttaparthi, Andhra Pradesh. <i>Journal of Ecophysiology and Occupational Health</i> , 2020, 20, 209-221.	0.1	0
39	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
40	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
41	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
42	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
43	Smartphone Plasmonics for Doxycycline Detection with Silver-Lignin Bio-spacer at Attomolar Sensitivity. <i>Plasmonics</i> , 2018, 13, 955-960.	3.4	14
44	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
45	Synergistic Hybrid Catalyst for Ethanol Detection: Enhanced Performance of Platinum Palladium Bimetallic Nanoparticles Decorated Graphene on Glassy Carbon Electrode. <i>Journal of Analytical Chemistry</i> , 2018, 73, 266-276.	0.9	0
46	Electrochemical Determination of Ethanol by a Palladium Modified Graphene Nanocomposite Glassy Carbon Electrode. <i>Analytical Letters</i> , 2017, 50, 350-363.	1.8	4
47	Spacer layer engineering for ultrasensitive Hg(II) detection on surface plasmon-coupled emission platform. <i>Nanotechnology Reviews</i> , 2017, 6, 331-338.	5.8	1
48	Silver@graphene oxide based plasmonic spacer for surface plasmon-coupled fluorescence emission enhancements. <i>Materials Research Express</i> , 2017, 4, 065002.	1.6	7
49	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
50	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
51	Ag@CNT Architectures for Attomolar Dopamine Detection and 100-Fold Fluorescence Enhancements with Cellphone-Based Surface Plasmon-Coupled Emission Platform. <i>ChemPhysChem</i> , 2016, 17, 2791-2794.	2.1	18
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	1-Minute Spacer Layer Engineering for Tunable Enhancements in Surface Plasmon-Coupled Emission. <i>Plasmonics</i> , 2015, 10, 489-494.	3.4	18
63	Novel Synthesis of Nanoparticles for Enhancements in Surface Plasmon Coupled Emission. , 2014, , .		1
64	Gold Decorated Graphene by Laser Ablation for Efficient Electrocatalytic Oxidation of Methanol and Ethanol. <i>Electroanalysis</i> , 2014, 26, 1850-1857.	2.9	24
65	Anti-fouling response of gold-carbon nanotubes composite for enhanced ethanol electrooxidation. <i>Journal of Power Sources</i> , 2014, 271, 305-311.	7.8	19
66	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
67	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
68	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
69	Ultra-Amplification of Surface Plasmon Coupled Emission Using an Engineered Graphene-Silver Thin Film Hybrid. , 2012, , .		5
70	Carbon Nanotube-Zirconium Dioxide Hybrid for Defluoridation of Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3552-3559.	0.9	24
71	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
72	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

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73	Low-Cost Plastic Plasmonic Substrates for Operation in Aqueous Environments. <i>Applied Spectroscopy</i> , 2010, 64, 1234-1237.	2.2	8
74	Surface Plasmon-Coupled Emission from Rhodamine-6G Aggregates for Ratiometric Detection of Ethanol Vapors. <i>IFMBE Proceedings</i> , 2010, , 309-312.	0.3	0
75	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
76	Spectral resolution of molecular ensembles under ambient conditions using surface plasmon coupled fluorescence emission. <i>Applied Optics</i> , 2009, 48, 5348.	2.1	29
77	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
78	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
79	Defluoridation of Water Using Zirconium Impregnated Coconut Fiber Carbon. <i>Separation Science and Technology</i> , 2008, 43, 3676-3694.	2.5	54
80	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
81	A water-soluble fluorescent fluoride ion probe based on Alizarin Red-Al(III) complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 457-461.	3.9	31
82	Fluoride ion detection by 8-hydroxyquinoline-Zr(IV)-EDTA complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 565-570.	3.9	22
83	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
84	Endophytic Fungi from <i>Aegle marmelos</i> Plant: A Potent and Innovative Platform for Enhanced Cellulolytic Enzyme Production. <i>Journal of Technology Innovations in Renewable Energy</i> , 0, 7, 7-18.	0.2	0