

Sai Gourang Patnaik

List of Publications by Year in descending order

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papers

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394286

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#	ARTICLE	IF	CITATIONS
1	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.	4.0	61
2	Femtometer 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.	1.6	59
3	Amplification of Surface Plasmon Coupled Emission from Graphene-Ag Hybrid Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17205-17210.	1.5	55
4	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.	2.4	46
5	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.	2.4	45
6	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.	2.2	40
7	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.	1.5	39
8	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.	1.3	37
9	Plasmon-Coupled Silver Nanoparticles for Mobile Phone-Based Attomolar Sensing of Mercury Ions. <i>ACS Applied Nano Materials</i> , 2021, 4, 8066-8080.	2.4	36
10	BIAN based functional diimine polymer binder for high performance Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17909-17919.	5.2	35
11	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.	0.2	34
12	Photoplasmonic assembly of dielectric-metal, Nd ₂ O ₃ -Gold soret nanointerfaces for dequenching the luminophore emission. <i>Nanophotonics</i> , 2021, 10, 3417-3431.	2.9	33
13	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.	1.5	32
14	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.	1.3	32
15	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.	4.0	28
16	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.	4.0	26
17	Gold Decorated Graphene by Laser Ablation for Efficient Electrocatalytic Oxidation of Methanol and Ethanol. <i>Electroanalysis</i> , 2014, 26, 1850-1857.	1.5	24
18	Purcell factor based understanding of enhancements in surface plasmon-coupled emission with DNA architectures. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 681-684.	1.3	23

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19	High Power Sodium-Ion Batteries and Hybrid Electrochemical Capacitors Using Mo or Nb-Doped Nano-Titania Anodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1662-A1670.	1.3	23
20	BIAN Based Electroactive Polymer with Defined Active Centers as Metal-Free Electrocatalysts for Oxygen Reduction Reaction (ORR) in Aqueous and Nonaqueous Media. <i>ACS Applied Energy Materials</i> , 2018, 1, 1183-1190.	2.5	21
21	Spot-free catalysis using gold carbon nanotube & gold graphene composites for hydrogen evolution reaction. <i>Journal of Power Sources</i> , 2015, 288, 441-450.	4.0	20
22	Anti-fouling response of gold-carbon nanotubes composite for enhanced ethanol electrooxidation. <i>Journal of Power Sources</i> , 2014, 271, 305-311.	4.0	19
23	Porous RuO ₂ N ₂ S ₂ Electrodes for Microsupercapacitors and Microbatteries with Enhanced Areal Performance. <i>ACS Energy Letters</i> , 2021, 6, 131-139.	8.8	19
24	1-Minute Spacer Layer Engineering for Tunable Enhancements in Surface Plasmon-Coupled Emission. <i>Plasmonics</i> , 2015, 10, 489-494.	1.8	18
25	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.	1.3	17
26	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.	1.2	16
27	On the UV-Visible Light Synergetic Mechanisms in Au/TiO ₂ Hybrid Model Nanostructures Achieving Photoreduction of Water. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25421-25430.	1.5	16
28	Reduction of Charge-Transfer Resistance via Artificial SEI Formation Using Electropolymerization of Borylated Thiophene Monomer on Graphite Anodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A493-A500.	1.3	14
29	Smartphone Plasmonics for Doxycycline Detection with Silver-Lignin Bio-spacer at Attomolar Sensitivity. <i>Plasmonics</i> , 2018, 13, 955-960.	1.8	14
30	Low Temperature Deposition of Highly Cyclable Porous Prussian Blue Cathode for Lithium-Ion Microbattery. <i>Small</i> , 2021, 17, e2101615.	5.2	12
31	Rethinking Pseudocapacitance: A Way to Harness Charge Storage of Crystalline RuO ₂ . <i>ACS Applied Energy Materials</i> , 2020, 3, 4144-4148.	2.5	11
32	Defined Poly(borosiloxane) as an Artificial Solid Electrolyte Interphase Layer for Thin-Film Silicon Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 2241-2247.	2.5	10
33	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.	1.6	10
34	Surface Plasmon-Coupled Dual Emission Platform for Ultrafast Oxygen Monitoring after SARS-CoV-2 Infection. <i>ACS Sensors</i> , 2021, 6, 4360-4368.	4.0	10
35	Highly porous scaffolds for Ru-based microsupercapacitor electrodes using hydrogen bubble templated electrodeposition. <i>Energy Storage Materials</i> , 2022, 47, 134-140.	9.5	10
36	Electrochemical Study of Prussian White Cathodes with Glymes - Pathway to Graphite-Based Sodium-Ion Battery Full Cells. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	10

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37	High Areal Capacity Porous Sn-Au Alloys with Long Cycle Life for Li-ion Microbatteries. Scientific Reports, 2020, 10, 10405.	1.6	9
38	High Refractive Index Dielectric TiO ₂ and Graphene Oxide as Salient Spacers for > 300-fold Enhancements. , 2021, , .		9
39	BIAN-Fluorene Copolymer Bearing Ruthenium Pendant as Sensitizer of Titanium Nanotubes for Photocatalytic Hydrogen Evolution. Journal of the Electrochemical Society, 2018, 165, J3166-J3172.	1.3	6
40	Fractal Carbon Islands on Plastic Substrates for Enhancement in Directional and Beaming Fluorescence Emission. ACS Applied Nano Materials, 2019, 2, 6103-6109.	2.4	5
41	Electrochemical Determination of Ethanol by a Palladium Modified Graphene Nanocomposite Glassy Carbon Electrode. Analytical Letters, 2017, 50, 350-363.	1.0	4
42	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.	1.3	4
43	Rational design of a BIAN-based multi-functional additive for higher durability and performance of LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂ cathodes. Molecular Systems Design and Engineering, 2019, 4, 939-950.	1.7	2
44	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.	1.3	2
45	Spacer layer engineering for ultrasensitive Hg(II) detection on surface plasmon-coupled emission platform. Nanotechnology Reviews, 2017, 6, 331-338.	2.6	1
46	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.	0.4	0
47	Double Approach Towards 3D Electrodeposited RuOx Porous Structure for High Energy/High Power Micro-Supercapacitors. ECS Meeting Abstracts, 2020, MA2020-01, 2828-2828.	0.0	0
48	Double Approach Towards 3D Electrodeposited RuOx Porous Structure for High Energy/High Power Micro-Supercapacitors. ECS Meeting Abstracts, 2020, MA2020-02, 3801-3801.	0.0	0