

# Sai Gourang Patnaik

## List of Publications by Year in descending order

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48  
papers

998  
citations

394286

19  
h-index

454834

30  
g-index

49  
all docs

49  
docs citations

49  
times ranked

755  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Electrochemical Study of Prussian White Cathodes with Glymes as Pathway to Graphite-Based Sodium-Ion Battery Full Cells. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	10
3	Porous RuO <sub>2</sub> N <sub>2</sub> S <sub>2</sub> Electrodes for Microsupercapacitors and Microbatteries with Enhanced Areal Performance. <i>ACS Energy Letters</i> , 2021, 6, 131-139.	8.8	19
4	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
5	Engineering of Exciton-Plasmon Coupling Using 2D-WS <sub>2</sub> Nanosheets for 1000-Fold Fluorescence Enhancement in Surface Plasmon-Coupled Emission Platforms. <i>Langmuir</i> , 2021, 37, 1954-1960.	1.6	10
6	High Refractive Index Dielectric TiO <sub>2</sub> and Graphene Oxide as Salient Spacers for >300-fold Enhancements. , 2021, , .		9
7	Low Temperature Deposition of Highly Cyclable Porous Prussian Blue Cathode for Lithium-Ion Microbattery. <i>Small</i> , 2021, 17, e2101615.	5.2	12
8	Engineering metal-dielectric nanostructures involving silver decorated Halloysite for augmented surface plasmon-coupled directional emission. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 131, 114718.	1.3	2
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	Multifunctional hybrid soret nanoarchitectures for mobile phone-based picomolar Cu <sup>2+</sup> ion sensing and dye degradation applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 132, 114764.	1.3	32
11	Photoplasmonic assembly of dielectric-metal, Nd <sub>2</sub> O <sub>3</sub> -Gold soret nanointerfaces for dequenching the luminophore emission. <i>Nanophotonics</i> , 2021, 10, 3417-3431.	2.9	33
12	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.	1.3	4
13	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
14	On the UV-Visible Light Synergetic Mechanisms in Au/TiO <sub>2</sub> Hybrid Model Nanostructures Achieving Photoreduction of Water. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25421-25430.	1.5	16
15	Rethinking Pseudocapacitance: A Way to Harness Charge Storage of Crystalline RuO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , 2020, 3, 4144-4148.	2.5	11
16	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
17	Femtomolar Detection of Spermidine Using Au Decorated SiO <sub>2</sub> Nanohybrid on Plasmon-Coupled Extended Cavity Nanointerface: A Smartphone-Based Fluorescence Dequenching Approach. <i>Langmuir</i> , 2020, 36, 2865-2876.	1.6	59
18	Superior Resonant Nanocavities Engineering on the Photonic Crystal-Coupled Emission Platform for the Detection of Femtomolar Iodide and Zeptomolar Cortisol. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34323-34336.	4.0	61

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19	High Areal Capacity Porous Sn-Au Alloys with Long Cycle Life for Li-ion Microbatteries. Scientific Reports, 2020, 10, 10405.	1.6	9
20	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.	1.5	39
21	Silver Soret Nanoparticles for Femtomolar Sensing of Glutathione in a Surface Plasmon-Coupled Emission Platform. ACS Applied Nano Materials, 2020, 3, 4329-4341.	2.4	46
22	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
23	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
24	Mobile Phone-Based Picomolar Detection of Tannic Acid on Nd <sub>2</sub> O <sub>3</sub> Nanorod-Metal Thin-Film Interfaces. ACS Applied Nano Materials, 2019, 2, 4613-4625.	2.4	45
25	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
26	Rational design of a BIAN-based multi-functional additive for higher durability and performance of LiMn <sub>1/3</sub> Ni <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> cathodes. Molecular Systems Design and Engineering, 2019, 4, 939-950.	1.7	2
27	Platinum nanoparticles-decorated graphene-modified glassy carbon electrode toward the electrochemical determination of ascorbic acid, dopamine, and paracetamol. Comptes Rendus Chimie, 2019, 22, 58-72.	0.2	34
28	Reduction of Charge-Transfer Resistance via Artificial SEI Formation Using Electropolymerization of Borylated Thiophene Monomer on Graphite Anodes. Journal of the Electrochemical Society, 2018, 165, A493-A500.	1.3	14
29	BIAN Based Electroactive Polymer with Defined Active Centers as Metal-Free Electrocatalysts for Oxygen Reduction Reaction (ORR) in Aqueous and Nonaqueous Media. ACS Applied Energy Materials, 2018, 1, 1183-1190.	2.5	21
30	Smartphone Plasmonics for Doxycycline Detection with Silver-Lignin Bio-spacer at Attomolar Sensitivity. Plasmonics, 2018, 13, 955-960.	1.8	14
31	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
32	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
33	High Power Sodium-Ion Batteries and Hybrid Electrochemical Capacitors Using Mo or Nb-Doped Nano-Titania Anodes. Journal of the Electrochemical Society, 2018, 165, A1662-A1670.	1.3	23
34	Electrochemical Determination of Ethanol by a Palladium Modified Graphene Nanocomposite Glassy Carbon Electrode. Analytical Letters, 2017, 50, 350-363.	1.0	4
35	Spacer layer engineering for ultrasensitive Hg(II) detection on surface plasmon-coupled emission platform. Nanotechnology Reviews, 2017, 6, 331-338.	2.6	1
36	Ag-protein plasmonic architectures for surface plasmon-coupled emission enhancements and Fabry-Perot mode-coupled directional fluorescence emission. Chemical Physics Letters, 2017, 685, 139-145.	1.2	16

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37	BIAN based functional diimine polymer binder for high performance Li ion batteries. Journal of Materials Chemistry A, 2017, 5, 17909-17919.	5.2	35
38	Earth Abundant Iron-Rich N-Doped Graphene Based Spacer and Cavity Materials for Surface Plasmon-Coupled Emission Enhancements. ACS Applied Materials & Interfaces, 2016, 8, 12324-12329.	4.0	28
39	Cellphone Monitoring of Multi-Qubit Emission Enhancements from Pd-Carbon Plasmonic Nanocavities in Tunable Coupling Regimes with Attomolar Sensitivity. ACS Applied Materials & Interfaces, 2016, 8, 23281-23288.	4.0	26
40	Purcell factor based understanding of enhancements in surface plasmon-coupled emission with DNA architectures. Physical Chemistry Chemical Physics, 2016, 18, 681-684.	1.3	23
41	Purcell Factor: A Tunable Metric for Plasmon-Coupled Fluorescence Emission Enhancements in Cermet Nanocavities. Journal of Physical Chemistry C, 2016, 120, 2908-2913.	1.5	32
42	Ultra-Selective Dopamine Detection in an Excess of Ascorbic Acid and Uric Acid Using Pristine Palladium Nanoparticles Decorated Graphene Modified Glassy Carbon Electrode. Journal of the Electrochemical Society, 2015, 162, H651-H660.	1.3	17
43	Low-dimensional carbon spacers in surface plasmon-coupled emission with femtomolar sensitivity and 1000-fold fluorescence enhancements. Chemical Communications, 2015, 51, 7809-7811.	2.2	40
44	Spot-free catalysis using gold carbon nanotube & gold graphene composites for hydrogen evolution reaction. Journal of Power Sources, 2015, 288, 441-450.	4.0	20
45	1-Minute Spacer Layer Engineering for Tunable Enhancements in Surface Plasmon-Coupled Emission. Plasmonics, 2015, 10, 489-494.	1.8	18
46	Gold Decorated Graphene by Laser Ablation for Efficient Electrocatalytic Oxidation of Methanol and Ethanol. Electroanalysis, 2014, 26, 1850-1857.	1.5	24
47	Anti-fouling response of gold-carbon nanotubes composite for enhanced ethanol electrooxidation. Journal of Power Sources, 2014, 271, 305-311.	4.0	19
48	Amplification of Surface Plasmon Coupled Emission from Graphene-Ag Hybrid Films. Journal of Physical Chemistry C, 2013, 117, 17205-17210.	1.5	55