

# Jayasmita Jana

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,488  
citations

361045

20  
h-index

315357

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enlightening surface plasmon resonance effect of metal nanoparticles for practical spectroscopic application. RSC Advances, 2016, 6, 86174-86211.	1.7	201
2	Morphology Controlled Synthesis of SnS <sub>2</sub> Nanomaterial for Promoting Photocatalytic Reduction of Aqueous Cr(VI) under Visible Light. Langmuir, 2014, 30, 4157-4164.	1.6	171
3	Remarkable Facet Selective Reduction of 4-Nitrophenol by Morphologically Tailored (111) Faceted Cu <sub>2</sub> O Nanocatalyst. ACS Omega, 2017, 2, 1968-1984.	1.6	101
4	A one pot synthesis of Au@ZnO nanocomposites for plasmon-enhanced sunlight driven photocatalytic activity. New Journal of Chemistry, 2014, 38, 2999.	1.4	91
5	Blue emitting nitrogen-doped carbon dots as a fluorescent probe for nitrite ion sensing and cell-imaging. Analytica Chimica Acta, 2019, 1079, 212-219.	2.6	81
6	One pot synthesis of intriguing fluorescent carbon dots for sensing and live cell imaging. Talanta, 2016, 150, 253-264.	2.9	61
7	The effect of solvent polarity on emission properties of carbon dots and their uses in colorimetric sensors for water and humidity. Materials Research Bulletin, 2019, 119, 110564.	2.7	60
8	Biomolecule-mediated CdS-TiO <sub>2</sub> -reduced graphene oxide ternary nanocomposites for efficient visible light-driven photocatalysis. Dalton Transactions, 2015, 44, 193-201.	1.6	51
9	Boron Precursor-Dependent Evolution of Differently Emitting Carbon Dots. Langmuir, 2017, 33, 573-584.	1.6	49
10	Synergism of gold and silver invites enhanced fluorescence for practical applications. RSC Advances, 2016, 6, 17683-17703.	1.7	47
11	Simple paper-based colorimetric and fluorescent glucose sensor using N-doped carbon dots and metal oxide hybrid structures. Analytica Chimica Acta, 2021, 1147, 187-198.	2.6	43
12	Silver nanoparticle anchored carbon dots for improved sensing, catalytic and intriguing antimicrobial activity. Dalton Transactions, 2015, 44, 20692-20707.	1.6	40
13	Glutathione modified N-doped carbon dots for sensitive and selective dopamine detection. Dyes and Pigments, 2021, 186, 109028.	2.0	40
14	Enhanced Catalytic Activity of Ag/Rh Bimetallic Nanomaterial: Evidence of an Ensemble Effect. Journal of Physical Chemistry C, 2016, 120, 5457-5467.	1.5	37
15	ZnO-Associated Carbon Dot-Based Fluorescent Assay for Sensitive and Selective Dopamine Detection. ACS Omega, 2019, 4, 17031-17038.	1.6	35
16	Selective Dopamine Chemosensing Using Silver-Enhanced Fluorescence. Langmuir, 2014, 30, 4120-4128.	1.6	32
17	Intriguing cysteine induced improvement of the emissive property of carbon dots with sensing applications. Physical Chemistry Chemical Physics, 2015, 17, 2394-2403.	1.3	29
18	One-Pot Fabrication of Perforated Graphitic Carbon Nitride Nanosheets Decorated with Copper Oxide by Controlled Ammonia and Sulfur Trioxide Release for Enhanced Catalytic Activity. ACS Omega, 2018, 3, 9318-9332.	1.6	29

#	ARTICLE	IF	CITATIONS
19	Carbon dot-MnO <sub>2</sub> FRET system for fabrication of molecular logic gates. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 716-725.	4.0	26
20	Silver Molybdates with Intriguing Morphology and as a Peroxidase Mimic with High Sulfide Sensing Capacity. <i>Crystal Growth and Design</i> , 2017, 17, 295-307.	1.4	25
21	Green synthesis of highly fluorescent Au@Ag <sub>2</sub> /Ag <sub>3</sub> -thiolate core-shell particles for selective detection of cysteine and Pb(II). <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18185.	1.3	23
22	Photoproduced Fluorescent Au(I)@(Ag <sub>2</sub> /Ag <sub>3</sub> )-Thiolate Giant Cluster: An Intriguing Sensing Platform for DMSO and Pb(II). <i>Langmuir</i> , 2014, 30, 348-357.	1.6	21
23	Designing a bimetallic transition metal oxide/hydroxide composite for effective electrocatalytic oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 562, 150253.	3.1	19
24	Carbon dot supported bimetallic nanocomposite for the hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157895.	2.8	18
25	Orange-red silver emitters for sensing application and bio-imaging. <i>Dalton Transactions</i> , 2015, 44, 11457-11469.	1.6	17
26	Fluorescence enhancement via varied long-chain thiol stabilized gold nanoparticles: A study of far-field effect. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 551-560.	2.0	16
27	Contribution of Carbon Dot Nanoparticles in Electrocatalysis: Development in Energy Conversion Process. <i>Journal of Electrochemical Science and Technology</i> , 2020, 11, 220-237.	0.9	16
28	Evolution of Silver-Mediated, Enhanced Fluorescent Au@Ag Nanoclusters under UV Activation: A Platform for Sensing. <i>ACS Omega</i> , 2018, 3, 3463-3470.	1.6	15
29	Uncovering the actual inner-filter effect between highly efficient carbon dots and nitroaromatics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118342.	2.0	14
30	High quantum yield aminophenylboronic acid-functionalized N-doped carbon dots for highly selective hypochlorite ion detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119895.	2.0	14
31	Benzophenone assisted UV-activated synthesis of unique Pd-nanodendrite embedded reduced graphene oxide nanocomposite: a catalyst for C-C coupling reaction and fuel cell. <i>RSC Advances</i> , 2019, 9, 21329-21343.	1.7	10
32	Fabrication of dual emission carbon dots and its use in highly sensitive thioamide detection. <i>Dyes and Pigments</i> , 2020, 175, 108126.	2.0	10
33	Designing an intriguingly fluorescent N, B-doped carbon dots based fluorescent probe for selective detection of NO <sub>2</sub> <sup>-</sup> ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 268, 120657.	2.0	10
34	Concentration-dependent emission of nitrogen-doped carbon dots and its use in hazardous metal-ion detection. <i>Carbon Letters</i> , 2021, 31, 523-536.	3.3	9
35	An account of doping in carbon dots for varied applications. <i>Natural Resources &amp; Engineering</i> , 2017, 2, 5-12.	0.3	8
36	Achievement of silver-directed enhanced photophysical properties of gold nanoclusters. <i>New Journal of Chemistry</i> , 2019, 43, 7074-7082.	1.4	6

#	ARTICLE	IF	CITATIONS
37	Carbon dot@Au(i)Ag(0) assembly for the construction of an artificial light harvesting system. Dalton Transactions, 2018, 47, 3580-3587.	1.6	5
38	Solvent Polarity-Dependent Behavior of Aliphatic Thiols and Amines toward Intriguingly Fluorescent AuAgGSH Assembly. ACS Omega, 2017, 2, 8086-8098.	1.6	4
39	Effect of surfactant surface nature on the energy transfer efficiency ( $\hat{i}$ ) of a carbon dot-dye system. Current Applied Physics, 2020, 20, 1058-1065.	1.1	2