

Sabyasachi Patra

List of Publications by Year in descending order

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papers

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1163117

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Redox Decomposition of Silver Citrate Complex in Nanoscale Confinement: An Unusual Mechanism of Formation and Growth of Silver Nanoparticles. <i>Langmuir</i> , 2014, 30, 2460-2469.	3.5	50
2	Wonderful nanoconfinement effect on redox reaction equilibrium. <i>RSC Advances</i> , 2014, 4, 33366-33369.	3.6	25
3	Evaluating the mechanism of nucleation and growth of silver nanoparticles in a polymer membrane under continuous precursor supply: tuning of multiple to single nucleation pathway. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4193-4199.	2.8	22
4	Silver nanoparticles stabilized in porous polymer support: A highly active catalytic nanoreactor. <i>Applied Catalysis A: General</i> , 2016, 524, 214-222.	4.3	21
5	Time resolved growth of membrane stabilized silver NPs and their catalytic activity. <i>RSC Advances</i> , 2014, 4, 59379-59386.	3.6	15
6	Understanding Nitric Acid-Induced Changes in the Arrangement of Monomeric and Polymeric Methacryloyl Diglycolamides on Their Affinity toward f-Element Ions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 212-218.	2.6	12
7	Nafion membrane incorporated with silver nanoparticles as optical test strip for dissolved hydrogen peroxide: Preparation, deployment and the mechanism of action. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 605-615.	7.8	10
8	Local Conditions Influencing In Situ Formation of Different Shaped Silver Nanostructures and Subsequent Reorganizations in Ionomer Membrane. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12026-12037.	3.1	9
9	Isotopic ratio correlation for the isotopic composition analysis of plutonium in Am-241/Pu mixed samples having High americium content. <i>Applied Radiation and Isotopes</i> , 2013, 78, 139-144.	1.5	8
10	Fission fragment mass distribution in the ^{241}Am reaction. <i>Physical Review C</i> , 2021, 103, .	2.9	8
11	Segmented gamma-ray assay of large volume radioactive waste drums containing plutonium lumps. <i>Applied Radiation and Isotopes</i> , 2019, 153, 108827.	1.5	6
12	Revisiting galvanic replacement between silver nanoparticles and mercury(II) ions in a cellulose membrane intended for optical assay application: Some new insights into silver-mercury interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125140.	4.7	6
13	Experimental determination of the curvature-induced intra-wall polarization of inorganic nanotubes. <i>Nanoscale</i> , 2021, 13, 19650-19662.	5.6	5
14	Attenuation correction for the assay of Uranium(VI) Solutions in large cylindrical containers by gamma ray spectrometry. <i>Applied Radiation and Isotopes</i> , 2013, 77, 174-179.	1.5	4
15	Probing Kinetics and Mechanism of Formation of Mixed Metallic Nanoparticles in a Polymer Membrane by Galvanic Replacement between Two Immiscible Metals: Case Study of Nickel/Silver Nanoparticle Synthesis. <i>Langmuir</i> , 2021, 37, 1637-1650.	3.5	4
16	Attenuation correction for the collimated gamma ray assay of cylindrical samples. <i>Applied Radiation and Isotopes</i> , 2015, 98, 23-28.	1.5	3
17	Isotopic composition analysis of dilute Pu solutions using 90-105 keV region of gamma ray spectra. <i>Applied Radiation and Isotopes</i> , 2017, 119, 66-71.	1.5	3
18	Algebraic reconstruction technique combined with Monte Carlo method for weight matrix calculation in gamma ray transmission tomography. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	3

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19	Full energy peak efficiency calibration for the assay of large volume radioactive waste drums in a segmented gamma scanner. Applied Radiation and Isotopes, 2019, 144, 80-86.	1.5	3
20	Application of gamma-ray spectrometry, neutron multiplicity counting and calorimetry for non-destructive assay of U ²³⁵ -Pu mixed samples. Applied Radiation and Isotopes, 2021, 176, 109891.	1.5	3
21	Activation of hydrogen iodide on silver tetramers: Role of confinement. Chemical Physics Letters, 2018, 705, 71-77.	2.6	2
22	Inorganic nanotubes with permanent wall polarization as dual photo-reactors for wastewater treatment with simultaneous fuel production. Environmental Science: Nano, 2021, 8, 2523-2541.	4.3	2
23	Synthesis, characterisation and counterion dependent mesoscopic modifications of ionomer nanocomposites having different dimensional silver nanostructures. , 2013, , .		0
24	Using the 90 ²⁴⁰ -105 ²⁴⁰ keV gamma-rays for isotopic composition determination of plutonium in dilute solutions. Applied Radiation and Isotopes, 2019, 145, 148-153.	1.5	0