Sabyasachi Patra

List of Publications by Year
in descending order

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		1163117	1058476
24	224	8	14
papers	citations	h-index	g-index

24	24	24	320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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. Langmuir, 2021, 37, 1637-1650.	3.5	4
2	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
3	Fission fragment mass distribution in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">S</mml:mi><mml:mprescripts /><mml:none /><mml:mn>32</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Sm</mml:mi><mml:mprescripts /><mml:none /><mml:mn>144</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> reaction. Physical Review C, 2021, 103, .	2.9	8
4	Application of gamma-ray spectrometry, neutron multiplicity counting and calorimetry for non-destructive assay of Uâ€“Pu mixed samples. Applied Radiation and Isotopes, 2021, 176, 109891.	1.5	3
5	Experimental determination of the curvature-induced intra-wall polarization of inorganic nanotubes. Nanoscale, 2021, 13, 19650-19662.	5.6	5
6	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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125140.	4.7	6
7	Segmented gamma-ray assay of large volume radioactive waste drums containing plutonium lumps. Applied Radiation and Isotopes, 2019, 153, 108827.	1.5	6
8	Algebraic reconstruction technique combined with Monte Carlo method for weight matrix calculation in gamma ray transmission tomography. SN Applied Sciences, 2019, 1, 1.	2.9	3
9	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. Physical Chemistry Chemical Physics, 2019, 21, 4193-4199.	2.8	22
10	Using the 90â€“105â€¯keV gamma-rays for isotopic composition determination of plutonium in dilute solutions. Applied Radiation and Isotopes, 2019, 145, 148-153.	1.5	0
11	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
12	Nafion membrane incorporated with silver nanoparticles as optical test strip for dissolved hydrogen peroxide: Preparation, deployment and the mechanism of action. Sensors and Actuators B: Chemical, 2018, 255, 605-615.	7.8	10
13	Activation of hydrogen iodide on silver tetramers: Role of confinement. Chemical Physics Letters, 2018, 705, 71-77.	2.6	2
14	Isotopic composition analysis of dilute Pu solutions using 90â^’105 keV region of gamma ray spectra. Applied Radiation and Isotopes, 2017, 119, 66-71.	1.5	3
15	Silver nanoparticles stabilized in porous polymer support: A highly active catalytic nanoreactor. Applied Catalysis A: General, 2016, 524, 214-222.	4.3	21
16	Attenuation correction for the collimated gamma ray assay of cylindrical samples. Applied Radiation and Isotopes, 2015, 98, 23-28.	1.5	3
17	Understanding Nitric Acid-Induced Changes in the Arrangement of Monomeric and Polymeric Methacryloyl Diglycolamides on Their Affinity toward f-Element Ions. Journal of Physical Chemistry B, 2015, 119, 212-218.	2.6	12
18	Time resolved growth of membrane stabilized silver NPs and their catalytic activity. RSC Advances, 2014, 4, 59379-59386.	3.6	15

#	Article	IF	Citations
19	Wonderful nanoconfinement effect on redox reaction equilibrium. RSC Advances, 2014, 4, 33366-33369.	3.6	25
20	Redox Decomposition of Silver Citrate Complex in Nanoscale Confinement: An Unusual Mechanism of Formation and Growth of Silver Nanoparticles. Langmuir, 2014, 30, 2460-2469.	3.5	50
21	Attenuation correction for the assay of Uranium(VI) Solutions in large cylindrical containers by gamma ray spectrometry. Applied Radiation and Isotopes, 2013, 77, 174-179.	1.5	4
22	Isotopic ratio correlation for the isotopic composition analysis of plutonium in Amâ€“Pu mixed samples having High americium content. Applied Radiation and Isotopes, 2013, 78, 139-144.	1.5	8
23	Local Conditions Influencing In Situ Formation of Different Shaped Silver Nanostructures and Subsequent Reorganizations in Ionomer Membrane. Journal of Physical Chemistry C, 2013, 117, 12026-12037.	3.1	9
24	Synthesis, characterisation and counterion dependent mesoscopic modifications of ionomer nanocomposites having different dimensional silver nanostructures. , 2013, , .		0