Sukdeb Pal

List of Publications by Year
in descending order

32 papers	4,104 citations	566801 15 h-index	395343 33 g-index
34 all docs	34 docs citations	34 times ranked	7266 citing authors

#	Article	IF	Citations
1	Does the Antibacterial Activity of Silver Nanoparticles Depend on the Shape of the Nanoparticle? A Study of the Gram-Negative Bacterium Escherichia coli. Applied and Environmental Microbiology, 2007, 73, 1712-1720.	1.4	3,422
2	Shape-Dependent Skin Penetration of Silver Nanoparticles: Does It Really Matter?. Scientific Reports, 2015, 5, 16908.	1.6	137
3	Synthesis of Highly Antibacterial Nanocrystalline Trivalent Silver Polydiguanide. Journal of the American Chemical Society, 2009, 131, 16147-16155.	6.6	68
4	Profiling of emerging contaminants and antibiotic resistance in sewage treatment plants: An Indian perspective. Journal of Hazardous Materials, 2021, 408, 124877.	6.5	47
5	High-content screening of drug-induced cardiotoxicity using quantitative single cell imaging cytometry on microfluidic device. Lab on A Chip, 2011, 11, 104-114.	3.1	44
6	Removal ofE. colifrom Water Using Surface-Modified Activated Carbon Filter Media and Its Performance over an Extended Use. Environmental Science & Technology, 2006, 40, 6091-6097.	4.6	39
7	SARS-CoV-2: sewage surveillance as an early warning system and challenges in developing countries. Environmental Science and Pollution Research, 2021, 28, 22221-22240.	2.7	38
8	Adsorption of five emerging contaminants on activated carbon from aqueous medium: kinetic characteristics and computational modeling for plausible mechanism. Environmental Science and Pollution Research, 2021, 28, 21347-21358.	2.7	32
9	Heterolayered TiO2@layered double hydroxide-MoS2 nanostructure for simultaneous adsorption-photocatalysis of co-existing water contaminants. Applied Surface Science, 2021, 553, 149577.	3.1	28
10	Nanocrystalline Silver Supported on Activated Carbon Matrix from Hydrosol: Antibacterial Mechanism Under Prolonged Incubation Conditions. Journal of Nanoscience and Nanotechnology, 2009, 9, 2092-2103.	0.9	26
11	Metallopharmaceuticals based on silver(I) and silver(II) polydiguanide complexes: activity against burn wound pathogens. Journal of Antimicrobial Chemotherapy, 2010, 65, 2134-2140.	1.3	26
12	Quantitation of surface coverage of oligonucleotides bound to chip surfaces: a fluorescence-based approach using alkaline phosphatase digestion. Lab on A Chip, 2008, 8, 1332.	3.1	20
13	A multifunctional composite of an antibacterial higher-valent silver metallopharmaceutical and a potent wound healing polypeptide: a combined killing and healing approach to wound care. New Journal of Chemistry, 2014, 38, 3889-3898.	1.4	18
14	Determination of the doseâ€“depth distribution of proton beam using resazurin assay in vitro and diode laser-induced fluorescence detection. Analytica Chimica Acta, 2007, 593, 214-223.	2.6	15
15	Utilization of layered double hydroxides (LDHs) and their derivatives as photocatalysts for degradation of organic pollutants. Environmental Science and Pollution Research, 2021, 28, 59551-59569.	2.7	15
16	Pulsed photostimulated- and thermo-luminescence investigations of Î³ ray-irradiated herbs. Food Chemistry, 2010, 122, 1290-1297.	4.2	11
17	Carbon and nutrient-limiting conditions stimulate biodegradation of low concentration of phenol. Biochemical Engineering Journal, 2017, 126, 40-49.	1.8	10
18	Carwash wastewater treatment using the chemical processes. Water Science and Technology, 2021, 84, 16-26.	1.2	10

#	Article	IF	Citations
19	Monitoring the (photo)genotoxicity of photosensitizer drugs: Direct quantitation of single-strand breaks in deoxyribonucleic acid using an oligonucleotide chip. Analytical Biochemistry, 2008, 382, 40-47.	1.1	9
20	Development of radiation indicators to distinguish between irradiated and non-irradiated herbal medicines using HPLC and GC-MS. Analytical and Bioanalytical Chemistry, 2010, 398, 943-953.	1.9	8
21	Assessment of Environmental Water Security of an Asian Deltaic Megacity and Its Peri-Urban Wetland Areas. Sustainability, 2021, 13, 2772.	1.6	8
22	Layered double hydroxides (LDHs)-based photocatalysts for dye degradation: a review. International Journal of Environmental Science and Technology, 2023, 20, 5733-5752.	1.8	8
23	Mitochondrial dysfunction is a key determinant of the rare disease lymphangioleiomyomatosis and provides a novel therapeutic target. Oncogene, 2019, 38, 3093-3101.	2.6	7
24	Identification of Î³-ray irradiated medicinal herbs using pulsed photostimulated luminescence, thermoluminescence, and electron spin resonance spectroscopy. Analytical and Bioanalytical Chemistry, 2009, 394, 1931-1945.	1.9	6
25	Interdigitated microelectrode array-coupled bipolar semiconductor photodiode array (IMEA-PDA) microchip for on-chip electrochemiluminescence detection. Biomedical Microdevices, 2009, 11, 971-980.	1.4	5
26	Feasibility of bioengineered two-stages sequential batch reactor and filtrationâ€“adsorption process for complex agrochemical effluent. Bioresource Technology, 2013, 148, 334-342.	4.8	5
27	Photo-Induced Synthesis of Coral-Like Hierarchical Agâ€“Fe Bimetallic Multifunctional Nanostructures. Chemistry of Materials, 2021, 33, 6501-6513.	3.2	5
28	Quantitation of ultraviolet-induced single-strand breaks using oligonucleotide chip. Analytica Chimica Acta, 2008, 622, 195-200.	2.6	4
29	Quantitative Classification of DNA Damages Induced by Submicromolar Cadmium Using Oligonucleotide Chip Coupled with Lesion-Specific Endonuclease Digestion. Environmental Science & Technology, 2011, 45, 4460-4467.	4.6	4
30	A Model Study for Vanadium Protein Interactions: Synthesis, Characterization of Oxovanadium (IV and) Tj ETQq0 0 0 rgBT /Overlock 10 Chemistry, 2005, 35, 127-132.	0.6	3
31	Oligonucleotide chip assay for quantification of gamma ray-induced single strand breaks. Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 562-566.	1.4	3
32	Targeted Delivery of siRNA Therapeutics using Ligand Mediated Biodegradable Polymeric Nanocarriers. Current Pharmaceutical Design, 2018, 24, 1788-1800.	0.9	3