

Bey Fen Leo

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,886
citations

257450

24
h-index

254184

43
g-index

54
all docs

54
docs citations

54
times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive review on nanocellulose: Recent developments, challenges and future prospects. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103884.	3.1	148
2	Silver nanoparticles reduce brain inflammation and related neurotoxicity through induction of H ₂ S-synthesizing enzymes. <i>Scientific Reports</i> , 2017, 7, 42871.	3.3	110
3	The Stability of Silver Nanoparticles in a Model of Pulmonary Surfactant. <i>Environmental Science & Technology</i> , 2013, 47, 11232-11240.	10.0	99
4	Graphene oxide exhibits differential mechanistic action towards Gram-positive and Gram-negative bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 6-15.	5.0	99
5	The Toxic Truth About Carbon Nanotubes in Water Purification: a Perspective View. <i>Nanoscale Research Letters</i> , 2018, 13, 183.	5.7	84
6	All-carbon suspended nanowire sensors as a rapid highly-sensitive label-free chemiresistive biosensing platform. <i>Biosensors and Bioelectronics</i> , 2018, 107, 145-152.	10.1	82
7	Carbon nanotube-based aptasensor for sensitive electrochemical detection of whole-cell <i>Salmonella</i> . <i>Analytical Biochemistry</i> , 2018, 554, 34-43.	2.4	82
8	A reduced graphene oxide-titanium dioxide nanocomposite based electrochemical aptasensor for rapid and sensitive detection of <i>Salmonella enterica</i> . <i>Bioelectrochemistry</i> , 2019, 127, 136-144.	4.6	78
9	Rapid and sensitive detection of <i>Salmonella</i> with reduced graphene oxide-carbon nanotube based electrochemical aptasensor. <i>Analytical Biochemistry</i> , 2020, 589, 113489.	2.4	75
10	Carbon Nanomaterial-Based Electrochemical Biosensors for Foodborne Bacterial Detection. <i>Critical Reviews in Analytical Chemistry</i> , 2019, 49, 510-533.	3.5	74
11	Graphene-based label-free electrochemical aptasensor for rapid and sensitive detection of foodborne pathogen. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 6893-6905.	3.7	63
12	Development of an aptasensor using reduced graphene oxide chitosan complex to detect <i>Salmonella</i> . <i>Journal of Electroanalytical Chemistry</i> , 2017, 806, 88-96.	3.8	63
13	Synthesis of Bimetallic Gold-Silver (Au-Ag) Nanoparticles for the Catalytic Reduction of 4-Nitrophenol to 4-Aminophenol. <i>Catalysts</i> , 2018, 8, 412.	3.5	62
14	Combined effect of CuO nanofillers and DBP plasticizer on ionic conductivity enhancement in the solid polymer electrolyte PEO-LiCF ₃ SO ₃ . <i>Ionics</i> , 2010, 16, 335-338.	2.4	58
15	Physico-chemical properties of titania nanotubes synthesized via hydrothermal and annealing treatment. <i>Applied Surface Science</i> , 2011, 258, 431-435.	6.1	54
16	Towards understanding the antibacterial activity of Ag nanoparticles: electron microscopy in the analysis of the materials-biology interface in the lung. <i>Environmental Science: Nano</i> , 2015, 2, 312-326.	4.3	47
17	Development of flexible electrochemical impedance spectroscopy-based biosensing platform for rapid screening of SARS-CoV-2 inhibitors. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113213.	10.1	44
18	Modulation of Human Macrophage Responses to <i>Mycobacterium tuberculosis</i> by Silver Nanoparticles of Different Size and Surface Modification. <i>PLoS ONE</i> , 2015, 10, e0143077.	2.5	43

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19	Synthesis, characterization and cytotoxicity studies of nanocrystalline cellulose from the production waste of rubber-wood and kenaf-bast fibers. <i>European Polymer Journal</i> , 2019, 116, 352-360.	5.4	41
20	Mechanistic actions and contributing factors affecting the antibacterial property and cytotoxicity of graphene oxide. <i>Chemosphere</i> , 2021, 281, 130739.	8.2	36
21	Renal Nano-drug delivery for acute kidney Injury: Current status and future perspectives. <i>Journal of Controlled Release</i> , 2022, 343, 237-254.	9.9	32
22	Synergistic antibacterial actions of graphene oxide and antibiotics towards bacteria and the toxicological effects of graphene oxide on human epidermal keratinocytes. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 142, 105087.	4.0	31
23	Pulmonary surfactant mitigates silver nanoparticle toxicity in human alveolar type-I-like epithelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 167-175.	5.0	30
24	Inactivation, Clearance, and Functional Effects of Lung-Instilled Short and Long Silver Nanowires in Rats. <i>ACS Nano</i> , 2017, 11, 2652-2664.	14.6	30
25	Physico-chemical studies of amorphous carbon nanotubes synthesized at low temperature. <i>Materials Research Bulletin</i> , 2012, 47, 1849-1854.	5.2	25
26	Supported cobalt nanoparticles on graphene oxide/mesoporous silica for oxidation of phenol and electrochemical detection of H ₂ O ₂ and Salmonella spp. <i>Materials Chemistry and Physics</i> , 2019, 232, 493-505.	4.0	25
27	Low-dose AgNPs reduce lung mechanical function and innate immune defense in the absence of cellular toxicity. <i>Nanotoxicology</i> , 2016, 10, 1-10.	3.0	23
28	Nano-engineered ZnO/CNF-based epoxidized natural rubber with enhanced strength for novel Self-healing glove fabrication. <i>Chemical Engineering Journal</i> , 2022, 437, 135440.	12.7	23
29	Modeling physicochemical interactions affecting in vitro cellular dosimetry of engineered nanomaterials: application to nanosilver. <i>Journal of Nanoparticle Research</i> , 2014, 16, 2616.	1.9	21
30	Efficacy and potential of phage therapy against multidrug resistant <i>Shigella</i> spp.. <i>PeerJ</i> , 2019, 7, e6225.	2.0	21
31	Development of nanoparticle-assisted PCR assay in the rapid detection of brain-eating amoebae. <i>Parasitology Research</i> , 2018, 117, 1801-1811.	1.6	20
32	Chitosan-Coated-PLGA Nanoparticles Enhance the Antitumor and Antimigration Activity of Stattic – A STAT3 Dimerization Blocker. <i>International Journal of Nanomedicine</i> , 2022, Volume 17, 137-150.	6.7	18
33	An investigation on surface modified TiO ₂ incorporated with graphene oxide for dye-sensitized solar cell. <i>Solar Energy</i> , 2019, 191, 663-671.	6.1	16
34	One-step Solvothermal Synthesis of rGO/TiO ₂ Nanocomposite for Efficient Solar Photocatalytic Degradation of Methylene Blue Dye. <i>Current Nanoscience</i> , 2019, 15, 157-162.	1.2	16
35	Facile Synthesis and Characterization of Palm CNF-ZnO Nanocomposites with Antibacterial and Reinforcing Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5781.	4.1	15
36	Exposure to Silver Nanospheres Leads to Altered Respiratory Mechanics and Delayed Immune Response in an in Vivo Murine Model. <i>Frontiers in Pharmacology</i> , 2018, 9, 213.	3.5	14

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37	Modeling aerosol transmission of SARS-CoV-2 from human-exhaled particles in a hospital ward. <i>Environmental Science and Pollution Research</i> , 2021, 28, 53478-53492.	5.3	14
38	Label-Free Time-of-Flight Secondary Ion Mass Spectrometry Imaging of Sulfur-Producing Enzymes inside Microglia Cells following Exposure to Silver Nanowires. <i>Analytical Chemistry</i> , 2019, 91, 11098-11107.	6.5	9
39	Asymmetric Cellulosic Membranes: Current and Future Aspects. <i>Symmetry</i> , 2020, 12, 1160.	2.2	9
40	Co-Doped, Tri-Doped, and Rare-Earth-Doped g-C ₃ N ₄ for Photocatalytic Applications: State-of-the-Art. <i>Catalysts</i> , 2022, 12, 586.	3.5	9
41	MXene-graphene hybrid nanoflakes as friction modifiers for outboard engine oil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 834, 012039.	0.6	8
42	A Comparison of Explicitly Terminated Diamond Electrodes Decorated with Gold Nanoparticles. <i>Electroanalysis</i> , 2016, 28, 88-95.	2.9	6
43	Facile synthesis of biocompatible sub-5 nm alginate-stabilised gold nanoparticles with sonosensitising properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127141.	4.7	5
44	Assessing the suitability of self-healing rubber glove for safe handling of pesticides. <i>Scientific Reports</i> , 2022, 12, 4275.	3.3	5
45	Improved delivery and antimetastatic effects of Stattic by self-assembled amphiphilic pendant-dendron copolymer micelles in breast cancer cell lines. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 59, 101905.	3.0	4
46	Properties of Kenaf Cellulose Nanofiber (CNF) as Potential Larvicide Nanocarrier and Its Acute Ecotoxicity against <i>Daphnia Magna</i> and <i>Dania rerio</i> . <i>Journal of Natural Fibers</i> , 2022, 19, 6756-6769.	3.1	4
47	Morphological, thermal, and mechanical properties of natural rubber reinforced with cellulose nanofibers from oil palm empty fruit bunch. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2021, 24, 631-640.	1.1	4
48	Photodegradation assessment of RB5 dye by utilizing WO ₃ /TiO ₂ nanocomposite: a cytotoxicity study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 22372-22390.	5.3	3
49	Synthesis and Optical Enhancement of Amorphous Carbon Nanotubes/Silver Nanohybrids via Chemical Route at Low Temperature. <i>Scientific World Journal</i> , The, 2014, 2014, 1-10.	2.1	2
50	Applications and impacts of nanomaterials in food safety and quality. , 2018, , 131-161.		1
51	An overview of cellulose nanofiber physicochemical characterizations and biological studies in relation to nanosafety concerns. , 2022, , 245-261.		1
52	Polymers as Water Disinfectants. <i>Springer Series on Polymer and Composite Materials</i> , 2019, , 149-165.	0.7	0
53	Development of the Sensing Platform for Protein Tyrosine Kinase Activity. <i>Biosensors</i> , 2021, 11, 240.	4.7	0
54	Preparation and Characterization of Stattic-Loaded Albumin Nanoparticles for Antimetastatic Cancer Treatment. <i>Drug Delivery Letters</i> , 2022, 12, .	0.5	0