

Pengyu Chen

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,198
citations

185998

28
h-index

223531

46
g-index

51
all docs

51
docs citations

51
times ranked

3645
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiplex Serum Cytokine Immunoassay Using Nanoplasmonic Biosensor Microarrays. ACS Nano, 2015, 9, 4173-4181.	7.3	267
2	Adaptive Interactions between Zinc Oxide Nanoparticles and <i>Chlorella</i> sp.. Environmental Science & Technology, 2012, 46, 12178-12185.	4.6	139
3	Multi-Walled Carbon Nanotube Instillation Impairs Pulmonary Function in C57BL/6 Mice. Particle and Fibre Toxicology, 2011, 8, 24.	2.8	120
4	Direct observation of a single nanoparticle's ubiquitin corona formation. Nanoscale, 2013, 5, 9162.	2.8	116
5	Disulfiram Copper Nanoparticles Prepared with a Stabilized Metal Ion Ligand Complex Method for Treating Drug-Resistant Prostate Cancers. ACS Applied Materials & Interfaces, 2018, 10, 41118-41128.	4.0	109
6	Inhibition of hIAPP Amyloid Aggregation and Pancreatic β -Cell Toxicity by OH-Terminated PAMAM Dendrimer. Small, 2016, 12, 1615-1626.	5.2	99
7	Integrated Nanoplasmonic Sensing for Cellular Functional Immunoanalysis Using Human Blood. ACS Nano, 2014, 8, 2667-2676.	7.3	89
8	Novel Murine Model of Chronic Granulomatous Lung Inflammation Elicited by Carbon Nanotubes. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 858-866.	1.4	72
9	Graphene oxide inhibits hIAPP amyloid fibrillation and toxicity in insulin-producing NIT-1 cells. Physical Chemistry Chemical Physics, 2016, 18, 94-100.	1.3	70
10	An integrated adipose-tissue-on-chip nanoplasmonic biosensing platform for investigating obesity-associated inflammation. Lab on A Chip, 2018, 18, 3550-3560.	3.1	68
11	Multiple MoS ₂ Transistors for Sensing Molecule Interaction Kinetics. Scientific Reports, 2015, 5, 10546.	1.6	64
12	Competitive Binding of Natural Amphiphiles with Graphene Derivatives. Scientific Reports, 2013, 3, 2273.	1.6	61
13	Label-free cytokine micro- and nano-biosensing towards personalized medicine of systemic inflammatory disorders. Advanced Drug Delivery Reviews, 2015, 95, 90-103.	6.6	58
14	AC Electroosmosis-Enhanced Nanoplasmo-fluidic Detection of Ultralow-Concentration Cytokine. Nano Letters, 2017, 17, 2374-2380.	4.5	55
15	Computational and Experimental Characterizations of Silver Nanoparticle's Apolipoprotein Biocorona. Journal of Physical Chemistry B, 2013, 117, 13451-13456.	1.2	50
16	Nanoimprint-Assisted Shear Exfoliation (NASE) for Producing Multilayer MoS ₂ Structures as Field-Effect Transistor Channel Arrays. ACS Nano, 2015, 9, 8773-8785.	7.3	48
17	Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity. Nanotechnology, 2013, 24, 345101.	1.3	47
18	Expansion of cardiac ischemia/reperfusion injury after instillation of three forms of multi-walled carbon nanotubes. Particle and Fibre Toxicology, 2012, 9, 38.	2.8	45

#	ARTICLE	IF	CITATIONS
19	Cyclewise Operation of Printed MoS ₂ Transistor Biosensors for Rapid Biomolecule Quantification at Femtomolar Levels. ACS Sensors, 2017, 2, 274-281.	4.0	40
20	Two different device physics principles for operating MoS ₂ transistor biosensors with femtomolar-level detection limits. Applied Physics Letters, 2015, 107, .	1.5	38
21	Probing the Aggregation and Immune Response of Human Islet Amyloid Polypeptides with Ligand-Stabilized Gold Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 10462-10471.	4.0	37
22	Binding of cytoskeletal proteins with silver nanoparticles. RSC Advances, 2013, 3, 22002.	1.7	36
23	Multiplexed Nanoplasmonic Temporal Profiling of T-Cell Response under Immunomodulatory Agent Exposure. ACS Sensors, 2016, 1, 941-948.	4.0	35
24	Nanoplasmonic Sandwich Immunoassay for Tumor-Derived Exosome Detection and Exosomal PD-L1 Profiling. ACS Sensors, 2021, 6, 3308-3319.	4.0	35
25	Machine-Learning-Assisted Microfluidic Nanoplasmonic Digital Immunoassay for Cytokine Storm Profiling in COVID-19 Patients. ACS Nano, 2021, 15, 18023-18036.	7.3	33
26	Amyloidosis inhibition, a new frontier of the protein corona. Nano Today, 2020, 35, 100937.	6.2	32
27	Contrasting Effects of Nanoparticle Binding on Protein Denaturation. Journal of Physical Chemistry C, 2014, 118, 22069-22078.	1.5	30
28	Thermostability and reversibility of silver nanoparticle-protein binding. Physical Chemistry Chemical Physics, 2015, 17, 1728-1739.	1.3	30
29	Oxidative stress in obesity-associated hepatocellular carcinoma: sources, signaling and therapeutic challenges. Oncogene, 2021, 40, 5155-5167.	2.6	30
30	Biomimetic metal-organic nanoparticles prepared with a 3D-printed microfluidic device as a novel formulation for disulfiram-based therapy against breast cancer. Applied Materials Today, 2020, 18, 100492.	2.3	29
31	Zinc-coordination and C-peptide complexation: a potential mechanism for the endogenous inhibition of IAPP aggregation. Chemical Communications, 2017, 53, 9394-9397.	2.2	21
32	Soft and Condensed Nanoparticles and Nanoformulations for Cancer Drug Delivery and Repurpose. Advanced Therapeutics, 2020, 3, 1900102.	1.6	21
33	Near-infrared light triggered activation of pro-drug combination cancer therapy and induction of immunogenic cell death. International Journal of Pharmaceutics, 2021, 607, 120972.	2.6	20
34	Recent Advances and Perspectives in Microfluidics-Based Single-Cell Biosensing Techniques. Small Methods, 2017, 1, 1700192.	4.6	18
35	Magnet Patterned Superparamagnetic Fe ₃ O ₄ /Au Core-Shell Nanoplasmonic Sensing Array for Label-Free High Throughput Cytokine Immunoassay. Advanced Healthcare Materials, 2019, 8, e1801478.	3.9	18
36	Dendrimer-Fullerenol Soft-Condensed Nanoassembly. Journal of Physical Chemistry C, 2012, 116, 15775-15781.	1.5	16

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37	Differential Roles of Plasma Protein Corona on Immune Cell Association and Cytokine Secretion of Oligomeric and Fibrillar Beta-Amyloid. <i>Biomacromolecules</i> , 2019, 20, 4208-4217.	2.6	16
38	Hyperbolic phonon polaritons with positive and negative phase velocities in suspended MoO_3 . <i>Applied Physics Letters</i> , 2022, 120, .	1.5	15
39	A Tris-Dendrimer for Hosting Diverse Chemical Species. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12789-12796.	1.5	14
40	Near-Field-Resonance-Enhanced Plasmonic Light Beaming. <i>IEEE Photonics Journal</i> , 2010, 2, 8-17.	1.0	12
41	Novel Nanoplasmonic-Structure-Based Integrated Microfluidic Biosensors for Label-Free In Situ Immune Functional Analysis: A review of recent progress. <i>IEEE Nanotechnology Magazine</i> , 2020, 14, 46-C3.	0.9	10
42	Spoof-surface-plasmon assisted light beaming in mid-infrared. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 685.	0.9	9
43	Effect of bundling on the E_1 plasmon energy in sub-nanometer single wall carbon nanotubes. <i>Carbon</i> , 2011, 49, 3803-3807.	5.4	8
44	Copper detection utilizing dendrimer and gold nanowire-induced surface plasmon resonance. <i>Journal of Applied Physics</i> , 2011, 109, 014911.	1.1	6
45	Biomolecular sensing using gold nanoparticle-coated ZnO nanotetrapods. <i>Journal of Materials Research</i> , 2011, 26, 2328-2333.	1.2	5
46	3D Phage-based biomolecular filter for effective high throughput capture of <i>Salmonella Typhimurium</i> in liquid streams. <i>Food Research International</i> , 2021, 142, 110181.	2.9	3
47	Nanoplasmonic cytokine biosensor towards precision medicine. , 2016, , .		2
48	Metal-Organic Nanomaterials for Drug Delivery. <i>ACS Symposium Series</i> , 2020, , 79-95.	0.5	1
49	Advanced Biosensing towards Real-Time Imaging of Protein Secretion from Single Cells. , 0, , .		1
50	Novel Murine Model Of Chronic Granulomatus Lung Inflammation Elicited By Carbon Nanotubes. , 2011, , .		0
51	Optofluidic Nanoplasmonic Biosensors for Functional Immune Analysis Towards Next Generation Immunoassays. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2379-2379.	0.0	0