Pengyu Chen

List of Publications by Year
in descending order

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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	Hyperbolic phonon polaritons with positive and negative phase velocities in suspended Î± -MoO3. Applied Physics Letters, 2022, 120, .	1.5	15
2	3D Phage-based biomolecular filter for effective high throughput capture of Salmonella Typhimurium in liquid streams. Food Research International, 2021, 142, 110181.	2.9	3
3	Oxidative stress in obesity-associated hepatocellular carcinoma: sources, signaling and therapeutic challenges. Oncogene, 2021, 40, 5155-5167.	2.6	30
4	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
5	Nanoplasmonic Sandwich Immunoassay for Tumor-Derived Exosome Detection and Exosomal PD-L1 Profiling. ACS Sensors, 2021, 6, 3308-3319.	4.0	35
6	Machine-Learning-Assisted Microfluidic Nanoplasmonic Digital Immunoassay for Cytokine Storm Profiling in COVID-19 Patients. ACS Nano, 2021, 15, 18023-18036.	7.3	33
7	Soft and Condensed Nanoparticles and Nanoformulations for Cancer Drug Delivery and Repurpose. Advanced Therapeutics, 2020, 3, 1900102.	1.6	21
8	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
9	Amyloidosis inhibition, a new frontier of the protein corona. Nano Today, 2020, 35, 100937.	6.2	32
10	Metalâ€“Organic Nanomaterials for Drug Delivery. ACS Symposium Series, 2020, , 79-95.	0.5	1
11	Novel Nanoplasmonic-Structure-Based Integrated Microfluidic Biosensors for Label-Free In Situ Immune Functional Analysis: A review of recent progress. IEEE Nanotechnology Magazine, 2020, 14, 46-C3.	0.9	10
12	Optofluidic Nanoplasmonic Biosensors for Functional Immune Analysis Towards Next Generation Immunoassays. ECS Meeting Abstracts, 2020, MA2020-01, 2379-2379.	0.0	0
13	Differential Roles of Plasma Protein Corona on Immune Cell Association and Cytokine Secretion of Oligomeric and Fibrillar Beta-Amyloid. Biomacromolecules, 2019, 20, 4208-4217.	2.6	16
14	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
15	Magnet Patterned Superparamagnetic Fe₃O₄/Au Coreâ€“Shell Nanoplasmonic Sensing Array for Labelâ€Free High Throughput Cytokine Immunoassay. Advanced Healthcare Materials, 2019, 8, e1801478.	3.9	18
16	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
17	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
18	Cyclewise Operation of Printed MoS₂ Transistor Biosensors for Rapid Biomolecule Quantification at Femtomolar Levels. ACS Sensors, 2017, 2, 274-281.	4.0	40

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19	AC Electroosmosis-Enhanced Nanoplasmofluidic Detection of Ultralow-Concentration Cytokine. Nano Letters, 2017, 17, 2374-2380.	4.5	55
20	Recent Advances and Perspectives in Microfluidicsâ€Based Singleâ€Cell Biosensing Techniques. Small Methods, 2017, 1, 1700192.	4.6	18
21	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
22	Multiplexed Nanoplasmonic Temporal Profiling of T-Cell Response under Immunomodulatory Agent Exposure. ACS Sensors, 2016, 1, 941-948.	4.0	35
23	Nanoplasmonic cytokine biosensor towards precision medicine. , 2016, , .		2
24	Inhibition of hIAPP Amyloid Aggregation and Pancreatic Î²-Cell Toxicity by OH-Terminated PAMAM Dendrimer. Small, 2016, 12, 1615-1626.	5.2	99
25	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
26	Multiple MoS2 Transistors for Sensing Molecule Interaction Kinetics. Scientific Reports, 2015, 5, 10546.	1.6	64
27	Multiplex Serum Cytokine Immunoassay Using Nanoplasmonic Biosensor Microarrays. ACS Nano, 2015, 9, 4173-4181.	7.3	267
28	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
29	Two different device physics principles for operating MoS2 transistor biosensors with femtomolar-level detection limits. Applied Physics Letters, 2015, 107, .	1.5	38
30	Nanoimprint-Assisted Shear Exfoliation (NASE) for Producing Multilayer MoS₂ Structures as Field-Effect Transistor Channel Arrays. ACS Nano, 2015, 9, 8773-8785.	7.3	48
31	Thermostability and reversibility of silver nanoparticleâ€“protein binding. Physical Chemistry Chemical Physics, 2015, 17, 1728-1739.	1.3	30
32	Integrated Nanoplasmonic Sensing for Cellular Functional Immunoanalysis Using Human Blood. ACS Nano, 2014, 8, 2667-2676.	7.3	89
33	Contrasting Effects of Nanoparticle Binding on Protein Denaturation. Journal of Physical Chemistry C, 2014, 118, 22069-22078.	1.5	30
34	Direct observation of a single nanoparticleâ€“ubiquitin corona formation. Nanoscale, 2013, 5, 9162.	2.8	116
35	Competitive Binding of Natural Amphiphiles with Graphene Derivatives. Scientific Reports, 2013, 3, 2273.	1.6	61
36	Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity. Nanotechnology, 2013, 24, 345101.	1.3	47

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37	Computational and Experimental Characterizations of Silver Nanoparticleâ€“Apolipoprotein Biocorona. Journal of Physical Chemistry B, 2013, 117, 13451-13456.	1.2	50
38	Binding of cytoskeletal proteins with silver nanoparticles. RSC Advances, 2013, 3, 22002.	1.7	36
39	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
40	Dendrimerâ€“Fullerenol Soft-Condensed Nanoassembly. Journal of Physical Chemistry C, 2012, 116, 15775-15781.	1.5	16
41	Adaptive Interactions between Zinc Oxide Nanoparticles and Chlorella sp.. Environmental Science & Technology, 2012, 46, 12178-12185.	4.6	139
42	A Tris-Dendrimer for Hosting Diverse Chemical Species. Journal of Physical Chemistry C, 2011, 115, 12789-12796.	1.5	14
43	Novel Murine Model Of Chronic Granulomatus Lung Inflammation Elicited By Carbon Nanotubes. , 2011, , .		0
44	Multi-Walled Carbon Nanotube Instillation Impairs Pulmonary Function in C57BL/6 Mice. Particle and Fibre Toxicology, 2011, 8, 24.	2.8	120
45	Effect of bundling on the Ï€ plasmon energy in sub-nanometer single wall carbon nanotubes. Carbon, 2011, 49, 3803-3807.	5.4	8
46	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
47	Copper detection utilizing dendrimer and gold nanowire-induced surface plasmon resonance. Journal of Applied Physics, 2011, 109, 014911.	1.1	6
48	Biomolecular sensing using gold nanoparticleâ€“coated ZnO nanotetrapods. Journal of Materials Research, 2011, 26, 2328-2333.	1.2	5
49	Spoof-surface-plasmon assisted light beaming in mid-infrared. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 685.	0.9	9
50	Near-Field-Resonance-Enhanced Plasmonic Light Beaming. IEEE Photonics Journal, 2010, 2, 8-17.	1.0	12
51	Advanced Biosensing towards Real-Time Imaging of Protein Secretion from Single Cells. , 0, , .		1