

Peng Fei Gao

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,070
citations

236925

25
h-index

243625

44
g-index

56
all docs

56
docs citations

56
times ranked

2681
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic biosensor for the highly sensitive detection of microRNA-21 via the chemical etching of gold nanorods under a dark-field microscope. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113942.	10.1	13
2	Plasmonic locator with sub-wavelength-diffraction-limited resolution for continuously accurate positioning. <i>Aggregate</i> , 2022, 3, .	9.9	7
3	Telomerase Activity Assay via 3,3',5,5'-Tetramethylbenzidine Dilation Etching of Gold Nanorods. <i>ACS Applied Nano Materials</i> , 2022, 5, 1484-1490.	5.0	11
4	In situ investigating the size-dependent scattering signatures and sensing sensitivity of single silver nanocube through a multi-model approach. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 253-262.	9.4	14
5	Long-distance transfer of plasmonic hot electrons across the Au-Pt porous interface for the hydrogen evolution reaction. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3108-3114.	5.5	8
6	Direct visualization of photo-induced disulfide through oxidative coupling of <i>para</i> -aminothiophenol. <i>Chemical Communications</i> , 2021, 57, 4190-4193.	4.1	4
7	Dark-Field Microscopy: Recent Advances in Accurate Analysis and Emerging Applications. <i>Analytical Chemistry</i> , 2021, 93, 4707-4726.	6.5	79
8	Size-Dependent Plasmonic Resonance Scattering Characteristics of Gold Nanorods for Highly Sensitive Detection of microRNA-27a. <i>ACS Applied Bio Materials</i> , 2021, 4, 3469-3475.	4.6	6
9	Orientation-independent reaction activity monitoring with single particle and data analytics. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 458-466.	9.4	5
10	Microscopic electron counting during plasmon-driven photocatalytic proton coupled electron transfer on a single silver nanoparticle. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120090.	20.2	16
11	Transformable Helical Self-Assembly for Cancerous Golgi Apparatus Disruption. <i>Nano Letters</i> , 2021, 21, 8455-8465.	9.1	22
12	Plasmonics-attended NSET and PRET for analytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115805.	11.4	37
13	Enzyme Activity Triggered Blocking of Plasmon Resonance Energy Transfer for Highly Selective Detection of Acid Phosphatase. <i>Analytical Chemistry</i> , 2020, 92, 2130-2135.	6.5	42
14	Distance-Dependence Study of Plasmon Resonance Energy Transfer with DNA Spacers. <i>Analytical Chemistry</i> , 2020, 92, 14278-14283.	6.5	12
15	High-Resolution Vertical Polarization Excited Dark-Field Microscopic Imaging of Anisotropic Gold Nanorods for the Sensitive Detection and Spatial Imaging of Intracellular microRNA-21. <i>Analytical Chemistry</i> , 2020, 92, 13118-13125.	6.5	30
16	ZnO micron rods as single dielectric resonator for optical sensing. <i>Analytica Chimica Acta</i> , 2020, 1109, 107-113.	5.4	2
17	Nanofabrication of hollowed-out Au@AgPt core-frames via selective carving of silver and deposition of platinum. <i>Chemical Communications</i> , 2020, 56, 2945-2948.	4.1	14
18	Carbon Quantum Dots-Europium(III) Energy Transfer Architecture Embedded in Electrospun Nanofibrous Membranes for Fingerprint Security and Document Counterspy. <i>Analytical Chemistry</i> , 2019, 91, 11185-11191.	6.5	35

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19	Localized surface plasmon resonance scattering imaging and spectroscopy for real-time reaction monitoring. <i>Applied Spectroscopy Reviews</i> , 2019, 54, 237-249.	6.7	25
20	Metal-Mediated Gold Nanospheres Assembled for Dark-Field Microscopy Imaging Scatterometry. <i>Talanta</i> , 2019, 201, 280-285.	5.5	7
21	A multifunctional AIEgen with high cell-penetrating ability for intracellular fluorescence assays, imaging and drug delivery. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1151-1158.	5.9	13
22	AIE Featured Inorganic@Organic Core@Shell Nanoparticles for High-Efficiency siRNA Delivery and Real-Time Monitoring. <i>Nano Letters</i> , 2019, 19, 2272-2279.	9.1	58
23	Ultralong UV/mechano-excited room temperature phosphorescence from purely organic cluster excitons. <i>Nature Communications</i> , 2019, 10, 5161.	12.8	216
24	Gold Triangular Nanoplates Based Single-Particle Dark-Field Microscopy Assay of Pyrophosphate. <i>Analytical Chemistry</i> , 2019, 91, 15798-15803.	6.5	26
25	Modulation of inner filter effect between plasmonic Cu ₂ S Se1 and rhodamine 6G for detection of biothiols. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 966-973.	7.8	9
26	The localized surface plasmon resonance induced edge effect of gold regular hexagonal nanoplates for reaction progress monitoring. <i>Chemical Communications</i> , 2018, 54, 13359-13362.	4.1	17
27	Glutathione-driven Cu(O) ₂ chemistry: a new light-up fluorescent assay for intracellular glutathione. <i>Analyst</i> , 2018, 143, 2486-2490.	3.5	3
28	Redox-Active AIEgen-Derived Plasmonic and Fluorescent Core@Shell Nanoparticles for Multimodality Bioimaging. <i>Journal of the American Chemical Society</i> , 2018, 140, 6904-6911.	13.7	112
29	Ultrasensitive Virion Immunoassay Platform with Dual-Modality Based on a Multifunctional Aggregation-Induced Emission Luminogen. <i>ACS Nano</i> , 2018, 12, 9549-9557.	14.6	87
30	Photoinduced Electron Transfer Process Visualized on Single Silver Nanoparticles. <i>ACS Nano</i> , 2017, 11, 2085-2093.	14.6	75
31	Real-time dark-field light scattering imaging to monitor the coupling reaction with gold nanorods as an optical probe. <i>Nanoscale</i> , 2017, 9, 3568-3575.	5.6	41
32	A portable RGB sensing gadget for sensitive detection of Hg ²⁺ using cysteamine-capped QDs as fluorescence probe. <i>Biosensors and Bioelectronics</i> , 2017, 98, 36-40.	10.1	49
33	Color resolution improvement of the dark-field microscopy imaging of single light scattering plasmonic nanoprobes for microRNA visual detection. <i>Nanoscale</i> , 2017, 9, 4593-4600.	5.6	19
34	Surface-engineered quantum dots/electrospun nanofibers as a networked fluorescence aptasensing platform toward biomarkers. <i>Nanoscale</i> , 2017, 9, 17020-17028.	5.6	47
35	Boron and nitrogen co-doped single-layered graphene quantum dots: a high-affinity platform for visualizing the dynamic invasion of HIV DNA into living cells through fluorescence resonance energy transfer. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8719-8724.	5.8	48
36	Color-Encoded Assays for the Simultaneous Quantification of Dual Cancer Biomarkers. <i>Analytical Chemistry</i> , 2017, 89, 8484-8489.	6.5	47

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37	Chiral nanoprobe for targeting and long-term imaging of the Golgi apparatus. <i>Chemical Science</i> , 2017, 8, 6829-6835.	7.4	167
38	HSI colour-coded analysis of scattered light of single plasmonic nanoparticles. <i>Nanoscale</i> , 2016, 8, 11467-11471.	5.6	39
39	Plasmon-induced light concentration enhanced imaging visibility as observed by a composite-field microscopy imaging system. <i>Chemical Science</i> , 2016, 7, 5477-5483.	7.4	35
40	Insight into a reversible energy transfer system. <i>Nanoscale</i> , 2016, 8, 16236-16242.	5.6	15
41	Precision improvement in dark-field microscopy imaging by using gold nanoparticles as an internal reference: a combined theoretical and experimental study. <i>Nanoscale</i> , 2016, 8, 8729-8736.	5.6	26
42	A sensitive surface-enhanced Raman scattering enzyme-catalyzed immunoassay of respiratory syncytial virus. <i>Talanta</i> , 2016, 148, 308-312.	5.5	43
43	Visual Identification of Light-Driven Breakage of the Silver-Dithiocarbamate Bond by Single Plasmonic Nanoprobes. <i>Scientific Reports</i> , 2015, 5, 15427.	3.3	14
44	Porous hollow CuS nanospheres with prominent peroxidase-like activity prepared in large scale by a one-pot controllable hydrothermal step. <i>RSC Advances</i> , 2015, 5, 17458-17465.	3.6	41
45	Polydopamine-embedded Cu ₂ Se nanoparticles as a sensitive biosensing platform through the coupling of nanometal surface energy transfer and photo-induced electron transfer. <i>Analyst</i> , 2015, 140, 4121-4129.	3.5	25
46	Cu ²⁺ -mediated fluorescence switching of gold nanoclusters for the selective detection of clioquinol. <i>Analyst</i> , 2015, 140, 8194-8200.	3.5	27
47	Real-time scattered light dark-field microscopic imaging of the dynamic degradation process of sodium dimethyldithiocarbamate. <i>Nanoscale</i> , 2015, 7, 20709-20716.	5.6	19
48	Biomolecules-conjugated nanomaterials for targeted cancer therapy. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8452-8465.	5.8	22
49	A dark-field light scattering platform for real-time monitoring of the erosion of microparticles by Co ²⁺ . <i>Analyst</i> , 2014, 139, 2783-2787.	3.5	5
50	A dual model logic gate for mercury and iodide ions sensing based on metal-organic framework MIL-101. <i>RSC Advances</i> , 2014, 4, 37349-37352.	3.6	22
51	Metal-organic coordination polymers of Tb ₂ Eu _x (BDC) ₃ (H ₂ O) _n with tunable fluorescence and smart response toward aldehydes (0 ≤ x ≤ 2, BDC = 1,4-benzenedicarboxylate). <i>RSC Advances</i> , 2014, 4, 2573-2576.	3.6	16
52	Antibacterials loaded electrospun composite nanofibers: release profile and sustained antibacterial efficacy. <i>Polymer Chemistry</i> , 2014, 5, 1965-1975.	3.9	62
53	A simple rapid detection method of DNA based on ligation-mediated real-time fluorescence PCR. <i>Analyst</i> , 2013, 138, 5745.	3.5	13
54	Carbon Nanodots-Catalyzed Chemiluminescence of Luminol: A Singlet Oxygen-Induced Mechanism. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19219-19225.	3.1	90

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55	A new type of pH-responsive coordination polymer sphere as a vehicle for targeted anticancer drug delivery and sustained release. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3202.	5.8	132