Qiuming Yu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3545359/publications.pdf

Version: 2024-02-01

53 papers	2,797 citations	159585 30 h-index	175258 52 g-index
53 all docs	53 docs citations	53 times ranked	4823 citing authors

#	Article	IF	Citations
1	Inverted Size-Dependence of Surface-Enhanced Raman Scattering on Gold Nanohole and Nanodisk Arrays. Nano Letters, 2008, 8, 1923-1928.	9.1	360
2	Quantitative and simultaneous detection of four foodborne bacterial pathogens with a multi-channel SPR sensor. Biosensors and Bioelectronics, 2006, 22, 752-758.	10.1	274
3	Hierarchical zwitterionic modification of a SERS substrate enables real-time drug monitoring in blood plasma. Nature Communications, 2016, 7, 13437.	12.8	156
4	Multifunctional magneticâ€“plasmonic nanoparticles for fast concentration and sensitive detection of bacteria using SERS. Biosensors and Bioelectronics, 2012, 31, 130-136.	10.1	123
5	Surface functionalization for self-referencing surface plasmon resonance (SPR) biosensors by multi-step self-assembly. Sensors and Actuators B: Chemical, 2003, 90, 22-30.	7.8	116
6	Sensitive and Fast Detection of Fructose in Complex Media via Symmetry Breaking and Signal Amplification Using Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2014, 86, 2387-2394.	6.5	94
7	Solution-processed visible-blind UV-A photodetectors based on CH₃NH₃PbCl₃ perovskite thin films. Journal of Materials Chemistry C, 2017, 5, 3796-3806.	5.5	90
8	Probing the Protein Orientation on Charged Self-Assembled Monolayers on Gold Nanohole Arrays by SERS. Langmuir, 2007, 23, 8659-8662.	3.5	89
9	Stealth Surface Modification of Surface-Enhanced Raman Scattering Substrates for Sensitive and Accurate Detection in Protein Solutions. ACS Nano, 2015, 9, 2668-2676.	14.6	89
10	Surfaceâ€Enhanced Raman Scattering for Rapid Detection and Characterization of Antibioticâ€Resistant Bacteria. Advanced Healthcare Materials, 2018, 7, e1701335.	7.6	85
11	Surface-enhanced Raman scattering on gold quasi-3D nanostructure and 2D nanohole arrays. Nanotechnology, 2010, 21, 355301.	2.6	77
12	Ultra-low fouling and high antibody loading zwitterionic hydrogel coatings for sensing and detection in complex media. Acta Biomaterialia, 2016, 40, 31-37.	8.3	77
13	Solvent-molecule-mediated manipulation of crystalline grains for efficient planar binary lead and tin triiodide perovskite solar cells. Nanoscale, 2016, 8, 7621-7630.	5.6	65
14	Plasmonic Gold Nanohole Array for Surface-Enhanced Raman Scattering Detection of DNA Methylation. ACS Sensors, 2019, 4, 1534-1542.	7.8	65
15	Organic Ultraviolet Photodetectors Exhibiting Photomultiplication, Low Dark Current, and High Stability. Advanced Materials Technologies, 2017, 2, 1700025.	5.8	61
16	Multi-functional, thiophenol-based surface chemistry for surface-enhanced Raman spectroscopy. Chemical Communications, 2017, 53, 4550-4561.	4.1	57
17	Inverted hybrid solar cells based on pyrite FeS2 nanocrystals in P3HT:PCBM with enhanced photocurrent and air-stability. Solar Energy Materials and Solar Cells, 2013, 116, 252-261.	6.2	49
18	Paper Sensor Coated with a Poly(carboxybetaine)-Multiple DOPA Conjugate via Dip-Coating for Biosensing in Complex Media. Analytical Chemistry, 2017, 89, 10999-11004.	6.5	49

#	Article	IF	Citations
19	Structure of Cathodically Deposited Nickel Hexacyanoferrate Thin Films Using XRD and EXAFS. Langmuir, 2002, 18, 7714-7721.	3.5	47
20	Tailoring Plasmonic Nanostructures for Optimal SERS Sensing of Small Molecules and Large Microorganisms. Small, 2011, 7, 371-376.	10.0	46
21	Functionalized plasmonic nanostructure arrays for direct and accurate mapping extracellular pH of living cells in complex media using SERS. Biosensors and Bioelectronics, 2015, 73, 202-207.	10.1	44
22	Understanding the effects of dielectric medium, substrate, and depth on electric fields and SERS of quasi-3D plasmonic nanostructures. Optics Express, 2011, 19, 20493.	3.4	42
23	Flexible Narrowband Ultraviolet Photodetectors with Photomultiplication Based on Wide Band Gap Conjugated Polymer and Inorganic Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 24064-24074.	8.0	40
24	Anisotropic Growth of Iron Pyrite FeS₂ Nanocrystals via Oriented Attachment. Chemistry of Materials, 2015, 27, 3516-3525.	6.7	39
25	In Situ Strain-Level Detection and Identification of Vibrio parahaemolyticus Using Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2013, 85, 2630-2637.	6.5	38
26	Sensitive Bacterial Detection via Dielectrophoretic-Enhanced Mass Transport Using Surface-Plasmon-Resonance Biosensors. Analytical Chemistry, 2018, 90, 14635-14642.	6.5	37
27	Light Transmission and Surface-Enhanced Raman Scattering of Quasi-3D Plasmonic Nanostructure Arrays with Deep and Shallow Fabry-PÃ©rot Nanocavities. Journal of Physical Chemistry C, 2011, 115, 10996-11002.	3.1	34
28	Controlling morphology and phase of pyrite FeS2 hierarchical particles via the combination of structure-direction and chelating agents. CrystEngComm, 2012, 14, 4188.	2.6	34
29	Controlled colloidal synthesis of iron pyrite FeS₂nanorods and quasi-cubic nanocrystal agglomerates. Nanoscale, 2014, 6, 1029-1037.	5.6	34
30	Impact of cesium on the phase and device stability of triple cation Pbâ€“Sn double halide perovskite films and solar cells. Journal of Materials Chemistry A, 2018, 6, 17426-17436.	10.3	33
31	High efficiency PTB7-based inverted organic photovoltaics on nano-ridged and planar zinc oxide electron transport layers. Journal of Materials Chemistry A, 2015, 3, 5563-5571.	10.3	32
32	Narrowband Ultraviolet Photodetectors Based on Nanocomposite Thin Films with High Gain and Low Driving Voltage. ACS Applied Materials & Interfaces, 2018, 10, 41552-41561.	8.0	31
33	Label-Free Raman Observation of TET1 Protein-Mediated Epigenetic Alterations in DNA. Analytical Chemistry, 2019, 91, 7304-7312.	6.5	23
34	Tunable and highly reproducible surface-enhanced Raman scattering substrates made from large-scale nanoparticle arrays based on periodically poled LiNbO3templates. Science and Technology of Advanced Materials, 2013, 14, 055011.	6.1	20
35	Tuning cesiumâ€“guanidinium in formamidinium tin triiodide perovskites with an ethylenediammonium additive for efficient and stable lead-free perovskite solar cells. Materials Advances, 2020, 1, 3507-3517.	5.4	20
36	Optofluidic microsystem with quasi-3 dimensional gold plasmonic nanostructure arrays for online sensitive and reproducible SERS detection. Analytica Chimica Acta, 2015, 863, 41-48.	5.4	19

#	Article	IF	Citations
37	Surface-Enhanced Raman Scattering on Gold Nanohole Arrays in Symmetrical Dielectric Environments Exhibiting Electric Field Extension. Journal of Physical Chemistry C, 2016, 120, 25519-25529.	3.1	19
38	Inverted hybrid CdSeâ€“polymer solar cells adopting PEDOT:PSS/MoO₃ as dual hole transport layers. Physical Chemistry Chemical Physics, 2016, 18, 3463-3471.	2.8	18
39	Tuning the spectral response of ultraviolet organicâ€“inorganic hybrid photodetectors via charge trapping and charge collection narrowing. Physical Chemistry Chemical Physics, 2018, 20, 11273-11284.	2.8	18
40	Tuning multiple Fano and plasmon resonances in rectangle grid quasi-3D plasmonic-photonic nanostructures. Applied Physics Letters, 2013, 103, 053117.	3.3	17
41	Design and development of plasmonic nanostructured electrodes for ITO-free organic photovoltaic cells on rigid and highly flexible substrates. Nanotechnology, 2017, 28, 165401.	2.6	17
42	Long-range surface plasmon resonance and surface-enhanced Raman scattering on X-shaped gold plasmonic nanohole arrays. Physical Chemistry Chemical Physics, 2017, 19, 24126-24134.	2.8	17
43	X-shaped quasi-3D plasmonic nanostructure arrays for enhancing electric field and Raman scattering. Nanotechnology, 2012, 23, 405201.	2.6	16
44	Chemical Polymerization of Hydroxymethyl and Chloromethyl Functionalized PEDOT:PSS. ACS Applied Polymer Materials, 2019, 1, 3103-3114.	4.4	16
45	Manipulation of PEDOT:PSS with Polar and Nonpolar Solvent Post-treatment for Efficient Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 9656-9666.	5.1	16
46	Hydroxymethyl-Functionalized PEDOT-MeOH:PSS for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 17571-17582.	8.0	13
47	In situ controlled growth of well-dispersed Au nanoparticles inside the channels of SBA-15 using a simple, bio-inspired method for surface-enhanced Raman spectroscopy. RSC Advances, 2013, 3, 10154.	3.6	12
48	Plasmonic Aluminum Nanohole Arrays as Transparent Conducting Electrodes for Organic Ultraviolet Photodetectors with Bias-Dependent Photoresponse. ACS Applied Nano Materials, 2019, 2, 4942-4953.	5.0	12
49	Revealing Stability of Inverted Planar MA-Free Perovskite Solar Cells and Electric Field-Induced Phase Instability. Journal of Physical Chemistry C, 2020, 124, 18805-18815.	3.1	11
50	Ruddlesdenâ€“Popper Perovskites with Narrow Phase Distribution for Airâ€Stable Solar Cells. Solar Rrl, 2022, 6, .	5.8	4
51	Optical properties and surface-enhanced Raman scattering of quasi-3D gold plasmonic nanostructures. Proceedings of SPIE, 2010, , .	0.8	1
52	Incorporating Aluminum Plasmonic Nanohemisphere Arrays into Organic Ultraviolet Photodetectors for Improved Photoresponse. ACS Applied Nano Materials, 2019, 2, 6690-6700.	5.0	1
53	The Fano resonance in quasi-3D gold plasmonic nanostructure arrays for surface-enhanced Raman scattering. Proceedings of SPIE, 2012, , .	0.8	0