

Zhi Yu

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,334
citations

279798

23
h-index

345221

36
g-index

49
all docs

49
docs citations

49
times ranked

1896
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-Transfer Effect on Surface-Enhanced Raman Scattering (SERS) in an Ordered Ag NPs/4-Mercaptobenzoic Acid/TiO ₂ System. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22439-22444.	3.1	100
2	Three-dimensional superhydrophobic surface-enhanced Raman spectroscopy substrate for sensitive detection of pollutants in real environments. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4330-4337.	10.3	88
3	Enantioselective Discrimination of Alcohols by Hydrogen Bonding: A SERS Study. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13866-13870.	13.8	83
4	Preparation of a Superhydrophobic and Peroxidase-like Activity Array Chip for H ₂ O ₂ Sensing by Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23472-23480.	8.0	59
5	A Highly Sensitive Single Crystal Perovskiteâ€“Graphene Hybrid Vertical Photodetector. <i>Small</i> , 2020, 16, e2000733.	10.0	55
6	Bioinspired Hierarchical Surfaces Fabricated by Femtosecond Laser and Hydrothermal Method for Water Harvesting. <i>Langmuir</i> , 2019, 35, 3562-3567.	3.5	54
7	Modulating the optical and electrical properties of MAPbBr ₃ single crystals via voltage regulation engineering and application in memristors. <i>Light: Science and Applications</i> , 2020, 9, 111.	16.6	51
8	Contribution of hydrogen bonding to charge-transfer induced surface-enhanced Raman scattering of an intermolecular system comprising p-aminothiophenol and benzoic acid. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3153.	2.8	49
9	Structural and compositional control in copper selenide nanocrystals for light-induced self-repairable electrodes. <i>Nano Energy</i> , 2018, 51, 774-785.	16.0	46
10	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2000453.	19.5	42
11	Charge Transfer Effects on Resonance-Enhanced Raman Scattering for Molecules Adsorbed on Single-Crystalline Perovskite. <i>ACS Photonics</i> , 2018, 5, 1619-1627.	6.6	41
12	A Chiralâ€“Labelâ€“Free SERS Strategy for the Synchronous Chiral Discrimination and Identification of Small Aromatic Molecules. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19079-19086.	13.8	40
13	Strong nonlinear absorption in perovskite films. <i>Optical Materials Express</i> , 2018, 8, 1472.	3.0	39
14	Magnetic imprinted surface enhanced Raman scattering (MI-SERS) based ultrasensitive detection of ciprofloxacin from a mixed sample. <i>Analytical Methods</i> , 2014, 6, 1627-1632.	2.7	38
15	A SERSâ€“active enzymatic product used for the quantification of diseaseâ€“related molecules. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 75-81.	2.5	35
16	Superhydrophobic Al Surfaces with Properties of Anticorrosion and Reparability. <i>ACS Omega</i> , 2018, 3, 17425-17429.	3.5	35
17	Anomalous Ambipolar Phototransistors Based on Allâ€“Inorganic CsPbBr ₃ Perovskite at Room Temperature. <i>Advanced Optical Materials</i> , 2019, 7, 1900676.	7.3	33
18	Hierarchical micro/nanostructured TiO ₂ /Ag substrates based on femtosecond laser structuring: A facile route for enhanced SERS performance and location predictability. <i>Applied Surface Science</i> , 2019, 478, 737-743.	6.1	31

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19	Quantitative evaluation of proteins with bicinchoninic acid (BCA): resonance Raman and surface-enhanced resonance Raman scattering-based methods. <i>Analyst</i> , The, 2012, 137, 5834.	3.5	29
20	A chiral signal-amplified sensor for enantioselective discrimination of amino acids based on charge transfer-induced SERS. <i>Chemical Communications</i> , 2019, 55, 9697-9700.	4.1	29
21	Charge-Transfer-Induced Enantiomer Selective Discrimination of Chiral Alcohols by SERS. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29374-29381.	3.1	28
22	Surface-enhanced Raman spectroscopy study on the structure changes of 4-Mercaptophenylboronic Acid under different pH conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 336-342.	3.9	26
23	Split aptamer-based detection of adenosine triphosphate using surface enhanced Raman spectroscopy and two kinds of gold nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 251.	5.0	24
24	A self-driven microfluidic surface-enhanced Raman scattering device for Hg ²⁺ detection fabricated by femtosecond laser. <i>Lab on A Chip</i> , 2020, 20, 414-423.	6.0	24
25	Design of an anti-aggregated SERS sensing platform for metal ion detection based on bovine serum albumin-mediated metal nanoparticles. <i>Chemical Communications</i> , 2013, 49, 7334.	4.1	22
26	Boosting Perovskite Photodetector Performance in NIR Using Plasmonic Bowtie Nanoantenna Arrays. <i>Small</i> , 2020, 16, e2001417.	10.0	21
27	A rapid and ultrasensitive SERRS assay for histidine and tyrosine based on azo coupling. <i>Talanta</i> , 2016, 159, 208-214.	5.5	20
28	SERS study on the synergistic effects of electric field enhancement and charge transfer in an Ag ₂ S quantum dots/plasmonic bowtie nanoantenna composite system. <i>Photonics Research</i> , 2020, 8, 548.	7.0	16
29	Long-term seawater anti-corrosion properties of Al alloy triggered by femtosecond laser structuring with phase change. <i>Applied Surface Science</i> , 2022, 573, 151612.	6.1	16
30	Accurate Adjusting the Lattice Strain of Triple-Cation and Mixed-Halide Perovskites for High-Performance Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28154-28162.	8.0	16
31	Simple immersion to prepare a Zn/Ag biomimetic superhydrophobic surface and exploring its applications on SERS. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 467, 224-232.	4.7	15
32	Effect of Ag ₂ S Nanocrystals/Reduced Graphene Oxide Interface on Hydrogen Evolution Reaction. <i>Catalysts</i> , 2020, 10, 948.	3.5	15
33	Dramatically Enhanced Photoluminescence from Femtosecond Laser Induced Micro/Nanostructures on MAPbBr ₃ Single Crystal Surface. <i>Advanced Optical Materials</i> , 2018, 6, 1800411.	7.3	14
34	The mechanism of an enzymatic reaction-induced SERS transformation for the study of enzyme-molecule interfacial interactions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31787-31795.	2.8	11
35	Laser-Assisted Synthesis of Ag ₂ S Quantum Dots in Perovskite Matrix and Its Application in Broadband Photodetectors. <i>Advanced Optical Materials</i> , 2022, 10, 2101535.	7.3	10
36	Sensitive metal ions (II) determination with resonance Raman method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 52-56.	3.9	9

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37	Multiple weak interaction-assisted SERS detection platform for triadimefon. Journal of Raman Spectroscopy, 2015, 46, 54-58.	2.5	8
38	Fluorescence enhanced lab-on-a-chip patterned using a hybrid technique of femtosecond laser direct writing and anodized aluminum oxide porous nanostructuring. Nanoscale Advances, 2019, 1, 3474-3484.	4.6	7
39	A Chiral-Label-Free SERS Strategy for the Synchronous Chiral Discrimination and Identification of Small Aromatic Molecules. Angewandte Chemie, 2020, 132, 19241-19248.	2.0	7
40	Immune recognition construct plasmonic dimer for SERS-based bioassay. Journal of Raman Spectroscopy, 2013, 44, 1253-1258.	2.5	5
41	Deepening of nanograting structures on Si by a two-step laser spatial-selective amorphization strategy combined with chemical etching. Applied Surface Science, 2022, 589, 152965.	6.1	5
42	Interaction of Pulses of Different Duration with Chemically Prepared Silver Nanoparticles: Analysis of Optical Nonlinearities. Journal of Nanomaterials, 2019, 2019, 1-12.	2.7	4
43	Deciphering the Carrier Transport Properties in Two-Dimensional Perovskites via Surface-Enhanced Raman Scattering. Small, 2021, 17, e2103756.	10.0	4
44	Advanced fuzzy PID composite control for stabilized platform system. , 2012, , .		3
45	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl 19.5 2		2
46	Object tracking based on integrating the Genetic algorithm with complex method. , 2013, , .		0
47	Innentitelbild: A Chiral-Label-Free SERS Strategy for the Synchronous Chiral Discrimination and Identification of Small Aromatic Molecules (Angew. Chem. 43/2020). Angewandte Chemie, 2020, 132, 18982-18982.	2.0	0