Zhi Yu

List of Publications by Year
in descending order

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	Laser‐Assisted Synthesis of Ag_2S‐Quantum‐Dot‐in‐Perovskite Matrix and Its Application in Broadband Photodetectors. Advanced Optical Materials, 2022, 10, 2101535.	7.3	10
2	Long-term seawater anti-corrosion properties of Al alloy triggered by femtosecond laser structuring with phase change. Applied Surface Science, 2022, 573, 151612.	6.1	16
3	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
4	Accurate Adjusting the Lattice Strain of Triple-Cation and Mixed-Halide Perovskites for High-Performance Photodetector. ACS Applied Materials & Interfaces, 2022, 14, 28154-28162.	8.0	16
5	Deciphering the Carrier Transport Properties in Two‐Dimensional Perovskites via Surface‐Enhanced Raman Scattering. Small, 2021, 17, e2103756.	10.0	4
6	A self-driven microfluidic surface-enhanced Raman scattering device for Hg^{2+} detection fabricated by femtosecond laser. Lab on A Chip, 2020, 20, 414-423.	6.0	24
7	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. Advanced Energy Materials, 2020, 10, 2000453.	19.5	42
8	A Chiral‐Label‐Free SERS Strategy for the Synchronous Chiral Discrimination and Identification of Small Aromatic Molecules. Angewandte Chemie - International Edition, 2020, 59, 19079-19086.	13.8	40
9	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
10	Effect of Ag2S Nanocrystals/Reduced Graphene Oxide Interface on Hydrogen Evolution Reaction. Catalysts, 2020, 10, 948.	3.5	15
11	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
12	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	19.5	2
13	Boosting Perovskite Photodetector Performance in NIR Using Plasmonic Bowtie Nanoantenna Arrays. Small, 2020, 16, e2001417.	10.0	21
14	A Highly Sensitive Single Crystal Perovskite‐Graphene Hybrid Vertical Photodetector. Small, 2020, 16, e2000733.	10.0	55
15	Modulating the optical and electrical properties of MAPbBr3 single crystals via voltage regulation engineering and application in memristors. Light: Science and Applications, 2020, 9, 111.	16.6	51
16	SERS study on the synergistic effects of electric field enhancement and charge transfer in an Ag_2S quantum dots/plasmonic bowtie nanoantenna composite system. Photonics Research, 2020, 8, 548.	7.0	16
17	Anomalous Ambipolar Phototransistors Based on All‐Inorganic $CsPbBr_3$ Perovskite at Room Temperature. Advanced Optical Materials, 2019, 7, 1900676.	7.3	33
18	A chiral signal-amplified sensor for enantioselective discrimination of amino acids based on charge transfer-induced SERS. Chemical Communications, 2019, 55, 9697-9700.	4.1	29

#	Article	IF	Citations
19	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
20	Hierarchical micro/nanostructured TiO2/Ag substrates based on femtosecond laser structuring: A facile route for enhanced SERS performance and location predictability. Applied Surface Science, 2019, 478, 737-743.	6.1	31
21	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
22	Split aptamer-based detection of adenosine triphosphate using surface enhanced Raman spectroscopy and two kinds of gold nanoparticles. Mikrochimica Acta, 2019, 186, 251.	5.0	24
23	Bioinspired Hierarchical Surfaces Fabricated by Femtosecond Laser and Hydrothermal Method for Water Harvesting. Langmuir, 2019, 35, 3562-3567.	3.5	54
24	Charge Transfer Effects on Resonance-Enhanced Raman Scattering for Molecules Adsorbed on Single-Crystalline Perovskite. ACS Photonics, 2018, 5, 1619-1627.	6.6	41
25	Superhydrophobic Al Surfaces with Properties of Anticorrosion and Reparability. ACS Omega, 2018, 3, 17425-17429.	3.5	35
26	Strong nonlinear absorption in perovskite films. Optical Materials Express, 2018, 8, 1472.	3.0	39
27	Dramatically Enhanced Photoluminescence from Femtosecond Laser Induced Micro‐/Nanostructures on MAPbBr$_3$ Single Crystal Surface. Advanced Optical Materials, 2018, 6, 1800411.	7.3	14
28	Structural and compositional control in copper selenide nanocrystals for light-induced self-repairable electrodes. Nano Energy, 2018, 51, 774-785.	16.0	46
29	Surface-enhanced Raman spectroscopy study on the structure changes of 4-Mercaptophenylboronic Acid under different pH conditions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 336-342.	3.9	26
30	A rapid and ultrasensitive SERRS assay for histidine and tyrosine based on azo coupling. Talanta, 2016, 159, 208-214.	5.5	20
31	Charge-Transfer-Induced Enantiomer Selective Discrimination of Chiral Alcohols by SERS. Journal of Physical Chemistry C, 2016, 120, 29374-29381.	3.1	28
32	The mechanism of an enzymatic reaction-induced SERS transformation for the study of enzyme–molecule interfacial interactions. Physical Chemistry Chemical Physics, 2016, 18, 31787-31795.	2.8	11
33	Multiple weak interaction‐assisted SERS detection platform for triadimefon. Journal of Raman Spectroscopy, 2015, 46, 54-58.	2.5	8
34	Three-dimensional superhydrophobic surface-enhanced Raman spectroscopy substrate for sensitive detection of pollutants in real environments. Journal of Materials Chemistry A, 2015, 3, 4330-4337.	10.3	88
35	Charge-Transfer Effect on Surface-Enhanced Raman Scattering (SERS) in an Ordered Ag NPs/4-Mercaptobenzoic Acid/TiO$_2$ System. Journal of Physical Chemistry C, 2015, 119, 22439-22444.	3.1	100
36	Preparation of a Superhydrophobic and Peroxidase-like Activity Array Chip for H$_2$O$_2$ Sensing by Surface-Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2015, 7, 23472-23480.	8.0	59

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37	Simple immersion to prepare a Zn/Ag biomimetic superhydrophobic surface and exploring its applications on SERS. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 467, 224-232.	4.7	15
38	Enantioselective Discrimination of Alcohols by Hydrogen Bonding: A SERS Study. Angewandte Chemie - International Edition, 2014, 53, 13866-13870.	13.8	83
39	A SERS-active enzymatic product used for the quantification of disease-related molecules. Journal of Raman Spectroscopy, 2014, 45, 75-81.	2.5	35
40	Magnetic imprinted surface enhanced Raman scattering (MI-SERS) based ultrasensitive detection of ciprofloxacin from a mixed sample. Analytical Methods, 2014, 6, 1627-1632.	2.7	38
41	Contribution of hydrogen bonding to charge-transfer induced surface-enhanced Raman scattering of an intermolecular system comprising p-aminothiophenol and benzoic acid. Physical Chemistry Chemical Physics, 2014, 16, 3153.	2.8	49
42	Sensitive metal ions (II) determination with resonance Raman method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 105, 52-56.	3.9	9
43	Design of an anti-aggregated SERS sensing platform for metal ion detection based on bovine serum albumin-mediated metal nanoparticles. Chemical Communications, 2013, 49, 7334.	4.1	22
44	Immune recognition construct plasmonic dimer for SERS-based bioassay. Journal of Raman Spectroscopy, 2013, 44, 1253-1258.	2.5	5
45	Object tracking based on integrating the Genetic algorithm with complex method. , 2013, , .		0
46	Advanced fuzzy PID composite control for stabilized platform system. , 2012, , .		3
47	Quantitative evaluation of proteins with bicinchoninic acid (BCA): resonance Raman and surface-enhanced resonance Raman scattering-based methods. Analyst, The, 2012, 137, 5834.	3.5	29