

Hougang Fan

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,078
citations

394421

19
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel strategy for improving SERS activity by cerium ion f ⁴ d transitions for rapid detection of endocrine disruptor. <i>Chemical Engineering Journal</i> , 2022, 430, 131467.	12.7	8
2	Interface synthesis of MoS ₂ @ZnO@Ag SERS substrate for the ultrasensitive determination of bilirubin. <i>Applied Surface Science</i> , 2022, 598, 153750.	6.1	11
3	Enhanced semiconductor charge-transfer resonance: Unprecedented oxygen bidirectional strategy. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128903.	7.8	19
4	2D MOF-derived porous NiCoSe nanosheet arrays on Ni foam for overall water splitting. <i>CrystEngComm</i> , 2021, 23, 69-81.	2.6	37
5	In-situ surface-enhanced Raman scattering based on MTi ₂ O nanoflowers: Monitoring and degradation of contaminants. <i>Journal of Hazardous Materials</i> , 2021, 412, 125209.	12.4	40
6	Raman Scattering Methods for Monitoring the Electric Properties of the Postannealed Bulk Heterojunction. <i>ACS Applied Energy Materials</i> , 2021, 4, 8360-8367.	5.1	1
7	Destroying the symmetric structure to promote phase transition: Improving the SERS performance and catalytic activity of MoS ₂ nanoflowers. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161268.	5.5	18
8	Visible-light-driven photocatalytic degradation of RhB by carbon-quantum-dot-modified g-C ₃ N ₄ on carbon cloth. <i>CrystEngComm</i> , 2021, 23, 4782-4790.	2.6	10
9	Oxygen vacancy induced electron traps in tungsten doped Bi ₂ Mo ₆ for enhanced photocatalytic performance. <i>CrystEngComm</i> , 2021, 23, 7270-7277.	2.6	5
10	Tailoring the d-band center by borophene subunits in chromic diboride toward the hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 5130-5138.	6.0	5
11	Construction of an MZO heterojunction system with improved photocatalytic activity for degradation of organic dyes. <i>CrystEngComm</i> , 2020, 22, 7059-7065.	2.6	13
12	Recyclable Magnetic MIP-Based SERS Sensors for Selective, Sensitive, and Reliable Detection of Paclobutrazol Residues in Complex Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14549-14556.	6.7	39
13	Enhanced electrochemical performance of the YBa _{0.5} Sr _{0.5} Co _{1.4} Cu _{0.6} O _{5+δ} cathode material by Sm _{0.2} Ce _{0.8} O _{1.9} incorporation for solid oxide fuel cells application. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 96, 742-752.	2.4	3
14	Ultrasound-assisted synthesis of hyper-dispersed type-II tubular Fe ₃ O ₄ @SiO ₂ @ZnO/ZnS core/shell heterostructure for improved visible-light photocatalysis. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155689.	5.5	24
15	Monitoring the charge-transfer process in a Nd-doped semiconductor based on photoluminescence and SERS technology. <i>Light: Science and Applications</i> , 2020, 9, 117.	16.6	111
16	Carrier dynamic monitoring of a I ⁻ -conjugated polymer: a surface-enhanced Raman scattering method. <i>Chemical Communications</i> , 2020, 56, 2779-2782.	4.1	16
17	Self-cleaning semiconductor heterojunction substrate: ultrasensitive detection and photocatalytic degradation of organic pollutants for environmental remediation. <i>Microsystems and Nanoengineering</i> , 2020, 6, 111.	7.0	20
18	ZnO nanoparticles on MoS ₂ microflowers for ultrasensitive SERS detection of bisphenol A. <i>Mikrochimica Acta</i> , 2019, 186, 593.	5.0	47

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19	Eco-friendly nanostructured Zn-Al layered double hydroxide photocatalysts with enhanced photocatalytic activity. <i>CrystEngComm</i> , 2019, 21, 4607-4619.	2.6	42
20	Plasmon-coupled Charge Transfer in FSZA Core-shell Microspheres with High SERS Activity and Pesticide Detection. <i>Scientific Reports</i> , 2019, 9, 13876.	3.3	11
21	Fabrication and adsorption properties of multiwall carbon nanotubes-coated/filled by various Fe ₃ O ₄ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18802-18810.	2.2	7
22	Structure evolution of chromium-doped boron clusters: toward the formation of endohedral boron cages. <i>RSC Advances</i> , 2019, 9, 2870-2876.	3.6	18
23	One-pot synthesis of ZnS nanowires/Cu ₇ S ₄ nanoparticles/reduced graphene oxide nanocomposites for supercapacitor and photocatalysis applications. <i>Dalton Transactions</i> , 2019, 48, 2442-2454.	3.3	46
24	Site-selective growth of Ag nanoparticles controlled by localized surface plasmon resonance of nanobowl arrays. <i>Nanoscale</i> , 2019, 11, 6576-6583.	5.6	34
25	Improved Charge Transfer and Hot Spots by Doping and Modulating the Semiconductor Structure: A High Sensitivity and Renewability Surface-Enhanced Raman Spectroscopy Substrate. <i>Langmuir</i> , 2019, 35, 8921-8926.	3.5	18
26	AgNPs decorated Mg-doped ZnO heterostructure with dramatic SERS activity for trace detection of food contaminants. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8199-8208.	5.5	40
27	Activating Old Materials with New Architecture: Boosting Performance of Perovskite Solar Cells with H ₂ O-Assisted Hierarchical Electron Transporting Layers. <i>Advanced Science</i> , 2019, 6, 1801170.	11.2	35
28	Charge Transfer in an Ordered Ag/Cu ₂ S/4-MBA System Based on Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5599-5605.	3.1	40
29	Optimized design of three-dimensional multi-shell Fe ₃ O ₄ /SiO ₂ /ZnO/ZnSe microspheres with type II heterostructure for photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 61-69.	20.2	88
30	Mesoporous TiO ₂ coated ZnFe ₂ O ₄ nanocomposite loading on activated fly ash cenosphere for visible light photocatalysis. <i>RSC Advances</i> , 2018, 8, 1398-1406.	3.6	17
31	SERS polarization-dependent effects for an ordered 3D plasmonic tilted silver nanorod array. <i>Nanoscale</i> , 2018, 10, 8106-8114.	5.6	44
32	XPS and Raman study of the active-sites on molybdenum disulfide nanopetals for photocatalytic removal of rhodamine B and doxycycline hydrochloride. <i>RSC Advances</i> , 2018, 8, 36280-36285.	3.6	15
33	Carrier Density-Dependent Localized Surface Plasmon Resonance and Charge Transfer Observed by Controllable Semiconductor Content. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6047-6051.	4.6	36
34	Tuning red emission and photocatalytic properties of highly active ZnO nanosheets by Eu addition. <i>Journal of Luminescence</i> , 2018, 204, 573-580.	3.1	16
35	The study of structural and optical properties of (Eu, La, Sm) codoped ZnO nanoparticles via a chemical route. <i>Materials Chemistry and Physics</i> , 2017, 194, 29-36.	4.0	40
36	Increasing local field by interfacial coupling in nanobowl arrays. <i>RSC Advances</i> , 2017, 7, 43671-43680.	3.6	10

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37	Synthesis, characterization and photoluminescence property of La-doped ZnO nanoparticles. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	13
38	Synthesis and photoluminescence characterizations of the Er ³⁺ -doped ZnO nanosheets with irregular porous microstructure. Materials Science in Semiconductor Processing, 2016, 41, 32-37.	4.0	20
39	Highly enhanced photocatalytic properties of ZnS nanowires/graphene nanocomposites. RSC Advances, 2014, 4, 30798-30806.	3.6	36
40	Zinc oxide nanotubes decorated with silver nanoparticles as an ultrasensitive substrate for surface-enhanced Raman scattering. Mikrochimica Acta, 2012, 179, 315-321.	5.0	25