

# Aiwu Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/909713/publications.pdf>

Version: 2024-02-01

25  
papers

634  
citations

623734

14  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled synthesis of Au-loaded Fe <sub>3</sub> O <sub>4</sub> @C composite microspheres with superior SERS detection and catalytic degradation abilities for organic dyes. Dalton Transactions, 2013, 42, 8597.	3.3	103
2	Facile fabrication and growth mechanism of 3D flower-like Fe <sub>3</sub> O <sub>4</sub> nanostructures and their application as SERS substrates. CrystEngComm, 2012, 14, 4834.	2.6	83
3	Rapid, large-scale, sonochemical synthesis of 3D nanotextured silver microflowers as highly efficient SERS substrates. Journal of Materials Chemistry, 2011, 21, 18817.	6.7	64
4	Periodic silver nanodishes as sensitive and reproducible surface-enhanced Raman scattering substrates. RSC Advances, 2014, 4, 3487-3493.	3.6	40
5	A highly sensitive DNAzyme-based SERS biosensor for quantitative detection of lead ions in human serum. Analytical and Bioanalytical Chemistry, 2020, 412, 4565-4574.	3.7	28
6	Fabrication of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Ag magnetic plasmonic nanospindles as highly efficient SERS active substrates for label-free detection of pesticides. New Journal of Chemistry, 2017, 41, 1582-1590.	2.8	26
7	In-situ monitoring reversible redox reaction and circulating detection of nitrite via an ultrasensitive magnetic Au@Ag SERS substrate. Sensors and Actuators B: Chemical, 2018, 256, 107-116.	7.8	25
8	A facile strategy for obtaining fresh Ag as SERS active substrates. Journal of Colloid and Interface Science, 2012, 366, 23-27.	9.4	23
9	Bioinspired ribbed hair arrays with robust superhydrophobicity fabricated by micro/nanosphere lithography and plasma etching. RSC Advances, 2015, 5, 96404-96411.	3.6	23
10	Green synthesis of rosettelike silver nanocrystals with textured surface topography and highly efficient SERS performances. CrystEngComm, 2011, 13, 5709.	2.6	22
11	Fabrication of cube-like Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Ag nanocomposites with high SERS activity and their application in pesticide detection. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	22
12	Au@Ag core-shell nanoparticles for microRNA-21 determination based on duplex-specific nuclease signal amplification and surface-enhanced Raman scattering. Mikrochimica Acta, 2020, 187, 384.	5.0	22
13	Regulation of the elastic modulus of polyurethane microarrays and its influence on gecko-inspired dry adhesion. Applied Surface Science, 2011, 257, 3336-3340.	6.1	18
14	Cube-like Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Au@Ag magnetic nanoparticles: a highly efficient SERS substrate for pesticide detection. Nanotechnology, 2018, 29, 165302.	2.6	17
15	Hierarchically assembled NiCo@SiO <sub>2</sub> @Ag magnetic core-shell microspheres as highly efficient and recyclable 3D SERS substrates. Analyst, The, 2015, 140, 440-448.	3.5	15
16	Fabrication and magnetic-induced aggregation of Fe <sub>3</sub> O <sub>4</sub> noble metal composites for superior SERS performances. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
17	Generalized green synthesis of diverse LnF <sub>3</sub> @Ag hybrid architectures and their shape-dependent SERS performances. RSC Advances, 2014, 4, 9205-9212.	3.6	13
18	Generalized green synthesis of Fe <sub>3</sub> O <sub>4</sub> /Ag composites with excellent SERS activity and their application in fungicide detection. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	13

#	ARTICLE	IF	CITATIONS
19	Uniform mesoporous 3D hematite superstructures: phase transition and their magnetic properties. RSC Advances, 2012, 2, 8681.	3.6	12
20	Multifunctional Fe <sub>3</sub> O <sub>4</sub> @mTiO <sub>2</sub> @noble metal composite NPs as ultrasensitive SERS substrates for trace detection. Arabian Journal of Chemistry, 2019, 12, 2017-2027.	4.9	12
21	Surface properties of bionic micro-pillar arrays with various shapes of tips. Applied Surface Science, 2012, 259, 93-98.	6.1	11
22	Ultrasensitive detection of trinitrotoluene by Fe <sub>3</sub> O <sub>4</sub> @mTiO <sub>2</sub> /P-ATP-TNT/Au@Ag SERS sensor <i>via</i> synergetic effect. Analytical Methods, 2019, 11, 1923-1929.	2.7	11
23	One-step synthesis of Ag@Fe <sub>3</sub> O <sub>4</sub> nanocomposites and their SERS properties. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	9
24	A <i>turn-off</i> SERS aptasensor based DNAzyme-gold nanorod for ultrasensitive lead ion detection. Analytica Chimica Acta: X, 2019, 2, 100020.	1.0	6
25	Facile synthesis of porous magnetite microspheres and solvent-induced phase transition. Superlattices and Microstructures, 2013, 60, 231-239.	3.1	1