

Aiwu Zhao

List of Publications by Year in descending order

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25
papers

634
citations

623734

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26
times ranked

1025
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#	ARTICLE	IF	CITATIONS
1	A highly sensitive DNAzyme-based SERS biosensor for quantitative detection of lead ions in human serum. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4565-4574.	3.7	28
2	Au@Ag core-shell nanoparticles for microRNA-21 determination based on duplex-specific nuclease signal amplification and surface-enhanced Raman scattering. <i>Mikrochimica Acta</i> , 2020, 187, 384.	5.0	22
3	A "turn-off" SERS aptasensor based DNAzyme-gold nanorod for ultrasensitive lead ion detection. <i>Analytica Chimica Acta: X</i> , 2019, 2, 100020.	1.0	6
4	Ultrasensitive detection of trinitrotoluene by Fe ₃ O ₄ @mTiO ₂ /P-ATP-TNT/Au@Ag SERS sensor via synergistic effect. <i>Analytical Methods</i> , 2019, 11, 1923-1929.	2.7	11
5	Multifunctional Fe ₃ O ₄ @mTiO ₂ @noble metal composite NPs as ultrasensitive SERS substrates for trace detection. <i>Arabian Journal of Chemistry</i> , 2019, 12, 2017-2027.	4.9	12
6	Cube-like Fe ₃ O ₄ @SiO ₂ @Au@Ag magnetic nanoparticles: a highly efficient SERS substrate for pesticide detection. <i>Nanotechnology</i> , 2018, 29, 165302.	2.6	17
7	In-situ monitoring reversible redox reaction and circulating detection of nitrite via an ultrasensitive magnetic Au@Ag SERS substrate. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 107-116.	7.8	25
8	Fabrication of Fe ₃ O ₄ @SiO ₂ @Ag magnetic plasmonic nanospindles as highly efficient SERS active substrates for label-free detection of pesticides. <i>New Journal of Chemistry</i> , 2017, 41, 1582-1590.	2.8	26
9	Fabrication of cube-like Fe ₃ O ₄ @SiO ₂ @Ag nanocomposites with high SERS activity and their application in pesticide detection. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	22
10	Generalized green synthesis of Fe ₃ O ₄ /Ag composites with excellent SERS activity and their application in fungicide detection. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	13
11	Bioinspired ribbed hair arrays with robust superhydrophobicity fabricated by micro/nanosphere lithography and plasma etching. <i>RSC Advances</i> , 2015, 5, 96404-96411.	3.6	23
12	Hierarchically assembled NiCo@SiO ₂ @Ag magnetic core-shell microspheres as highly efficient and recyclable 3D SERS substrates. <i>Analyst</i> , 2015, 140, 440-448.	3.5	15
13	Generalized green synthesis of diverse LnF ₃ @Ag hybrid architectures and their shape-dependent SERS performances. <i>RSC Advances</i> , 2014, 4, 9205-9212.	3.6	13
14	Periodic silver nanodishes as sensitive and reproducible surface-enhanced Raman scattering substrates. <i>RSC Advances</i> , 2014, 4, 3487-3493.	3.6	40
15	One-step synthesis of Ag@Fe ₃ O ₄ nanocomposites and their SERS properties. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	9
16	Controlled synthesis of Au-loaded Fe ₃ O ₄ @C composite microspheres with superior SERS detection and catalytic degradation abilities for organic dyes. <i>Dalton Transactions</i> , 2013, 42, 8597.	3.3	103
17	Fabrication and magnetic-induced aggregation of Fe ₃ O ₄ @noble metal composites for superior SERS performances. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	13
18	Facile synthesis of porous magnetite microspheres and solvent-induced phase transition. <i>Superlattices and Microstructures</i> , 2013, 60, 231-239.	3.1	1

#	ARTICLE	IF	CITATIONS
19	Uniform mesoporous 3D hematite superstructures: phase transition and their magnetic properties. RSC Advances, 2012, 2, 8681.	3.6	12
20	Surface properties of bionic micro-pillar arrays with various shapes of tips. Applied Surface Science, 2012, 259, 93-98.	6.1	11
21	Facile fabrication and growth mechanism of 3D flower-like Fe ₃ O ₄ nanostructures and their application as SERS substrates. CrystEngComm, 2012, 14, 4834.	2.6	83
22	A facile strategy for obtaining fresh Ag as SERS active substrates. Journal of Colloid and Interface Science, 2012, 366, 23-27.	9.4	23
23	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
24	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
25	Green synthesis of rosettelike silver nanocrystals with textured surface topography and highly efficient SERS performances. CrystEngComm, 2011, 13, 5709.	2.6	22