

Shicai Xu

List of Publications by Year in descending order

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16
papers

1,233
citations

687363

13
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940533

16
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16
all docs

16
docs citations

16
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time reliable determination of binding kinetics of DNA hybridization using a multi-channel graphene biosensor. <i>Nature Communications</i> , 2017, 8, 14902.	12.8	303
2	SERS activated platform with three-dimensional hot spots and tunable nanometer gap. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 163-171.	7.8	208
3	Graphene/Cu Nanoparticle Hybrids Fabricated by Chemical Vapor Deposition As Surface-Enhanced Raman Scattering Substrate for Label-Free Detection of Adenosine. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10977-10987.	8.0	157
4	Graphene isolated Au nanoparticle arrays with high reproducibility for high-performance surface-enhanced Raman scattering. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1175-1183.	7.8	113
5	Ultrasensitive label-free detection of DNA hybridization by sapphire-based graphene field-effect transistor biosensor. <i>Applied Surface Science</i> , 2018, 427, 1114-1119.	6.1	75
6	Flexible and stretchable SERS substrate based on a pyramidal PMMA structure hybridized with graphene oxide assisted AgNPs. <i>Applied Surface Science</i> , 2018, 455, 1171-1178.	6.1	69
7	Constructing 3D and Flexible Plasmonic Structure for High-Performance SERS Application. <i>Advanced Materials Technologies</i> , 2018, 3, 1800174.	5.8	65
8	Ag ₂ O@Ag core-shell structure on PMMA as low-cost and ultra-sensitive flexible surface-enhanced Raman scattering substrate. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1677-1684.	5.5	56
9	Graphene foam field-effect transistor for ultra-sensitive label-free detection of ATP. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 125-133.	7.8	49
10	Ag gyros-nanostructure supported on graphene/Au film with nanometer gap for ideal surface enhanced Raman scattering. <i>Optics Express</i> , 2017, 25, 20631.	3.4	37
11	3D hybrid MoS ₂ /AgNPs/inverted pyramid PMMA resonant cavity system for the excellent flexible surface enhanced Raman scattering sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 152-162.	7.8	33
12	Experimental and theoretical investigation for a hierarchical SERS activated platform with 3D dense hot spots. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 408-416.	7.8	29
13	Composite Structure Based on Gold-Nanoparticle Layer and HMM for Surface-Enhanced Raman Spectroscopy Analysis. <i>Nanomaterials</i> , 2021, 11, 587.	4.1	14
14	Graphene biosensor as affinity biosensors for biorecognition between Guanine riboswitch and ligand. <i>Applied Surface Science</i> , 2020, 503, 144303.	6.1	13
15	A 3D multilayer curved plasmonic coupling array with abundant and uniform hot spots for surface-enhanced Raman scattering. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 055101.	2.8	7
16	Detection of MicroRNA Based on Three-Dimensional Graphene Field-Effect Transistor Biosensor. <i>Nano</i> , 2020, 15, 2050039.	1.0	5