Yang Cheng

List of Publications by Year
in descending order

52 papers	1,417 citations	279487 23 h-index	344852 36 g-index
52 all docs	52 docs citations	52 times ranked	2035 citing authors

#	Article	IF	Citations
1	Theoretical and experimental investigation of the flexible Ag nano-tree@Cu mesh SERS substrate. Journal of Alloys and Compounds, 2022, 908, 164622.	2.8	6
2	Plasma treated graphene FET sensor for the DNA hybridization detection. Talanta, 2021, 223, 121766.	2.9	28
3	Film wrap nanoparticle system with the graphene nano-spacer for SERS detection. Optics Express, 2021, 29, 1360.	1.7	3
4	Two-Dimensional Cold Electron Transport for Steep-Slope Transistors. ACS Nano, 2021, 15, 5762-5772.	7.3	20
5	Sensitive Flexible Biosensor Based on the Three-Dimensional Layered AgNFs@Graphene Nanohybrids. Sensors and Actuators B: Chemical, 2021, 336, 129737.	4.0	6
6	Three-Dimensional Au/Ag Nanoparticle/Crossed Carbon Nanotube SERS Substrate for the Detection of Mixed Toxic Molecules. Nanomaterials, 2021, 11, 2026.	1.9	15
7	Design and mechanism of photocurrent-modulated graphene field-effect transistor for ultra-sensitive detection of DNA hybridization. Carbon, 2021, 182, 167-174.	5.4	7
8	Three-dimensional SERS sensor based on the sandwiched G@AgNPs@G/PDMS film. Talanta, 2021, 233, 122481.	2.9	5
9	Fork-shaped paper SERS sensors coated with raspberry-like bimetallic nanospheres for the detection of the boosted mixture: experimental design and applications. Journal of Materials Chemistry C, 2021, 9, 2763-2774.	2.7	13
10	Mechanism, Material, Design, and Implementation Principle of Two-Dimensional Material Photodetectors. Nanomaterials, 2021, 11, 2688.	1.9	17
11	MoS_2/graphene van der Waals heterojunctions combined with two-layered Au NP for SERS and catalysis analyse. Optics Express, 2021, 29, 38053.	1.7	7
12	Plasmonic filters based on MoS2@Au/Ag hybrids: Controllable separation, preconcentration, and sensitive SERS detection. Journal of Alloys and Compounds, 2020, 846, 156438.	2.8	11
13	Diode‐Like Selective Enhancement of Carrier Transport through Metal–Semiconductor Interface Decorated by Monolayer Boron Nitride. Advanced Materials, 2020, 32, e2002716.	11.1	19
14	The preparation of a novel iron/manganese binary oxide for the efficient removal of hexavalent chromium [Cr(vi)] from aqueous solutions. RSC Advances, 2020, 10, 10612-10623.	1.7	22
15	Donor effect dominated molybdenum disulfide/graphene nanostructure-based field-effect transistor for ultrasensitive DNA detection. Biosensors and Bioelectronics, 2020, 156, 112128.	5.3	40
16	Synthesis of Monolayer Gold Nanorings Sandwich Film and Its Higher Surface-Enhanced Raman Scattering Intensity. Nanomaterials, 2020, 10, 519.	1.9	4
17	*In-situ* electrospun aligned and maize-like AgNPs/PVA@Ag nanofibers for surface-enhanced Raman scattering on arbitrary surface. Nanophotonics, 2019, 8, 1719-1729.	2.9	42
18	Suspended 3D AgNPs/CNT nanohybrids for the SERS application. Applied Surface Science, 2019, 487, 1077-1083.	3.1	20

#	Article	IF	Citations
19	Suspended CNT-Based FET sensor for ultrasensitive and label-free detection of DNA hybridization. Biosensors and Bioelectronics, 2019, 137, 255-262.	5.3	46
20	Label-free diagnosis of lung cancer with tissue-slice surface-enhanced Raman spectroscopy and statistical analysis. Lasers in Medical Science, 2019, 34, 1849-1855.	1.0	28
21	Third-order optical nonlinearity in silicon nitride films prepared using magnetron sputtering and application for optical bistability. Journal of Applied Physics, 2019, 125, .	1.1	17
22	Formation of the AuNPs/GO@MoS2/AuNPs nanostructures for the SERS application. Sensors and Actuators B: Chemical, 2019, 282, 809-817.	4.0	28
23	Toward the highly sensitive SERS detection of bio-molecules: the formation of a 3D self-assembled structure with a uniform GO mesh between Ag nanoparticles and Au nanoparticles. Optics Express, 2019, 27, 25091.	1.7	15
24	Large energy pulses generation in a mode-locked Er-doped fiber laser based on CVD-grown Bi_2Te_3 saturable absorber. Optical Materials Express, 2019, 9, 3535.	1.6	22
25	Experimental and theoretical investigation for a hierarchical SERS activated platform with 3D dense hot spots. Sensors and Actuators B: Chemical, 2018, 263, 408-416.	4.0	29
26	Synthesis of the 3D AgNF/AgNP arrays for the paper-based surface enhancement Raman scattering application. Sensors and Actuators B: Chemical, 2018, 265, 302-309.	4.0	29
27	Roles of graphene nanogap for the AgNFs electrodeposition on the woven Cu net as flexible substrate and its application in SERS. Carbon, 2018, 133, 300-305.	5.4	31
28	SERS activated platform with three-dimensional hot spots and tunable nanometer gap. Sensors and Actuators B: Chemical, 2018, 258, 163-171.	4.0	208
29	Different number of silver nanoparticles layers for surface enhanced raman spectroscopy analysis. Sensors and Actuators B: Chemical, 2018, 255, 374-383.	4.0	42
30	Label-free and stable serum analysis based on Ag-NPs/PSi surface-enhanced Raman scattering for noninvasive lung cancer detection. Biomedical Optics Express, 2018, 9, 4345.	1.5	39
31	Diagnosis of liver cancer based on tissue slice surface enhanced Raman spectroscopy and multivariate analysis. Vibrational Spectroscopy, 2018, 98, 82-87.	1.2	30
32	Theoretical design of a surface plasmon resonance sensor with high sensitivity and high resolution based on graphene–WS_2 hybrid nanostructures and Au–Ag bimetallic film. RSC Advances, 2017, 7, 47177-47182.	1.7	50
33	A low lasing threshold and widely tunable spaser based on two dark surface plasmons. Scientific Reports, 2017, 7, 13590.	1.6	6
34	Formation of large-area stretchable 3D graphene–nickel particle foams and their sensor applications. RSC Advances, 2017, 7, 35016-35026.	1.7	12
35	Dense AuNP/MoS_2 hybrid fabrication on fiber membranes for molecule separation and SERS detection. RSC Advances, 2017, 7, 36516-36524.	1.7	23
36	Self-assembly of the stretchable AuNPs@MoS2@GF substrate for the SERS application. Applied Surface Science, 2017, 423, 1072-1079.	3.1	9

#	Article	IF	Citations
37	Ag2O@Ag core-shell structure on PMMA as low-cost and ultra-sensitive flexible surface-enhanced Raman scattering substrate. Journal of Alloys and Compounds, 2017, 695, 1677-1684.	2.8	56
38	Adsorbable and self-supported 3D AgNPs/G@Ni foam as cut-and-paste highly-sensitive SERS substrates for rapid in situ detection of residuum. Optics Express, 2017, 25, 16437.	1.7	18
39	Favorable Nucleation Sites of the Au-Graphene Hybrid Layer for the Aligned ZnO Nanorods Synthesis. Journal of Nanoscience and Nanotechnology, 2016, 16, 8823-8828.	0.9	0
40	Evanescent Wave Absorption Sensor Based Tapered Plastic Optical Fiber Coated with Monolayer Graphene for Ethanol Molecules Detection. Chinese Journal of Chemistry, 2016, 34, 1039-1047.	2.6	16
41	Gold@silver bimetal nanoparticles/pyramidal silicon 3D substrate with high reproducibility for high-performance SERS. Scientific Reports, 2016, 6, 25243.	1.6	86
42	Facile synthesis of large-area and highly crystalline WS2 film on dielectric surfaces for SERS. Journal of Alloys and Compounds, 2016, 666, 412-418.	2.8	37
43	Evanescent wave absorption sensor based on tapered multimode fiber coated with monolayer graphene film. Optics Communications, 2016, 366, 275-281.	1.0	28
44	Shell-isolated graphene@Cu nanoparticles on graphene@Cu substrates for the application in SERS. Carbon, 2016, 98, 526-533.	5.4	65
45	Few-layer MoS2-encapsulated Cu nanoparticle hybrids fabricated by two-step annealing process for surface enhanced Raman scattering. Sensors and Actuators B: Chemical, 2016, 230, 645-652.	4.0	38
46	Selenium-assisted controlled growth of graphene–Bi2Se3 nanoplates hybrid Dirac materials by chemical vapor deposition. Applied Surface Science, 2016, 365, 357-363.	3.1	15
47	The effect of temperature on Bi2Se3 nanostructures synthesized via chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2015, 26, 3881-3886.	1.1	14
48	Large-area MoS$_2$ thin layers directly synthesized on Pyramid-Si substrate for surface-enhanced Raman scattering. RSC Advances, 2015, 5, 83899-83905.	1.7	28
49	Effect of annealing time on the structural and ferromagnetic properties of the GaMnN thin films. Applied Physics A: Materials Science and Processing, 2014, 114, 1003-1007.	1.1	2
50	Facile synthesis 3D flexible core-shell graphene/glass fiber via chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 394.	3.1	17
51	Graphene–silver nanowire hybrid films as electrodes for transparent and flexible loudspeakers. CrystEngComm, 2014, 16, 3532.	1.3	47
52	Impact of Nitrogen Pressure on the Structural, Morphologic and Magnetic Properties of the GaMnN Thin Films. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3495-3499.	0.8	1