Cheng Yang

List of Publications by Year
in descending order

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55	1,577	236612	315357
papers	citations	25 h-index	38 g-index

55	55	55	2209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SERS activated platform with three-dimensional hot spots and tunable nanometer gap. Sensors and Actuators B: Chemical, 2018, 258, 163-171.	4.0	208
2	Gold@silver bimetal nanoparticles/pyramidal silicon 3D substrate with high reproducibility for high-performance SERS. Scientific Reports, 2016, 6, 25243.	1.6	86
3	Shell-isolated graphene@Cu nanoparticles on graphene@Cu substrates for the application in SERS. Carbon, 2016, 98, 526-533.	5.4	65
4	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
5	Gold-Nanorod-Coated Capillaries for the SERS-Based Detection of Thiram. ACS Applied Nano Materials, 2019, 2, 598-606.	2.4	55
6	Theoretical design of a surface plasmon resonance sensor with high sensitivity and high resolution based on grapheneâ€“WS₂ hybrid nanostructures and Auâ€“Ag bimetallic film. RSC Advances, 2017, 7, 47177-47182.	1.7	50
7	Fast room-temperature reduction of graphene oxide by methane/argon plasma for flexible electronics. Applied Surface Science, 2018, 452, 481-486.	3.1	48
8	Grapheneâ€“silver nanowire hybrid films as electrodes for transparent and flexible loudspeakers. CrystEngComm, 2014, 16, 3532.	1.3	47
9	Suspended CNT-Based FET sensor for ultrasensitive and label-free detection of DNA hybridization. Biosensors and Bioelectronics, 2019, 137, 255-262.	5.3	46
10	Different number of silver nanoparticles layers for surface enhanced raman spectroscopy analysis. Sensors and Actuators B: Chemical, 2018, 255, 374-383.	4.0	42
11	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
12	Direct growth of graphene on quartz substrates for label-free detection of adenosine triphosphate. Nanotechnology, 2014, 25, 165702.	1.3	40
13	Donor effect dominated molybdenum disulfide/graphene nanostructure-based field-effect transistor for ultrasensitive DNA detection. Biosensors and Bioelectronics, 2020, 156, 112128.	5.3	40
14	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
15	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
16	Ag gyrus-nanostructure supported on graphene/Au film with nanometer gap for ideal surface enhanced Raman scattering. Optics Express, 2017, 25, 20631.	1.7	37
17	Controlled-layer and large-area MoS_2 films encapsulated Au nanoparticle hybrids for SERS. Optics Express, 2016, 24, 26097.	1.7	36
18	One-step synthesis of size-tunable gold nanoparticles/reduced graphene oxide nanocomposites using argon plasma and their applications in sensing and catalysis. Applied Surface Science, 2019, 473, 83-90.	3.1	32

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19	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
20	Diagnosis of liver cancer based on tissue slice surface enhanced Raman spectroscopy and multivariate analysis. Vibrational Spectroscopy, 2018, 98, 82-87.	1.2	30
21	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
22	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
23	Large-area MoS₂ thin layers directly synthesized on Pyramid-Si substrate for surface-enhanced Raman scattering. RSC Advances, 2015, 5, 83899-83905.	1.7	28
24	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
25	Formation of the AuNPs/GO@MoS2/AuNPs nanostructures for the SERS application. Sensors and Actuators B: Chemical, 2019, 282, 809-817.	4.0	28
26	Plasma treated graphene FET sensor for the DNA hybridization detection. Talanta, 2021, 223, 121766.	2.9	28
27	Aluminum nanoparticle films with an enhanced hot-spot intensity for high-efficiency SERS. Optics Express, 2020, 28, 9174.	1.7	26
28	Dense AuNP/MoS₂ hybrid fabrication on fiber membranes for molecule separation and SERS detection. RSC Advances, 2017, 7, 36516-36524.	1.7	23
29	The preparation of a novel iron/manganese binary oxide for the efficient removal of hexavalent chromium [Cr(<scp>vi</scp>)] from aqueous solutions. RSC Advances, 2020, 10, 10612-10623.	1.7	22
30	Large energy pulses generation in a mode-locked Er-doped fiber laser based on CVD-grown Bi₂Te₃ saturable absorber. Optical Materials Express, 2019, 9, 3535.	1.6	22
31	Suspended 3D AgNPs/CNT nanohybrids for the SERS application. Applied Surface Science, 2019, 487, 1077-1083.	3.1	20
32	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
33	Facile synthesis 3D flexible core-shell graphene/glass fiber via chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 394.	3.1	17
34	Selenium-assisted controlled growth of grapheneâ€“Bi2Se3 nanoplates hybrid Dirac materials by chemical vapor deposition. Applied Surface Science, 2016, 365, 357-363.	3.1	15
35	Three-Dimensional Au/Ag Nanoparticle/Crossed Carbon Nanotube SERS Substrate for the Detection of Mixed Toxic Molecules. Nanomaterials, 2021, 11, 2026.	1.9	15
36	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

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37	Multifunctional paper strip based on GO-veiled Ag nanoparticles with highly SERS sensitive and deliverable properties for high-performance molecular detection. Optics Express, 2018, 26, 10023.	1.7	13
38	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
39	Formation of large-area stretchable 3D grapheneâ€“nickel particle foams and their sensor applications. RSC Advances, 2017, 7, 35016-35026.	1.7	12
40	CVD-Bi₂Te₃ as a saturable absorber for various solitons in a mode-locked Er-doped fiber laser. Applied Optics, 2020, 59, 7792.	0.9	12
41	Three-dimensional nanoporous MoS2 framework decorated with Au nanoparticles for surface-enhanced Raman scattering. Chemical Physics Letters, 2017, 682, 64-70.	1.2	11
42	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
43	Structural, morphological and magnetic characteristics of Tb-implanted GaN and AlGaN films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 349-353.	1.7	10
44	Structural, morphological and magnetic properties of AlGaN thin films co-implanted with Cr and Sm ions. Journal of Magnetism and Magnetic Materials, 2013, 343, 65-68.	1.0	10
45	Self-assembly of the stretchable AuNPs@MoS2@GF substrate for the SERS application. Applied Surface Science, 2017, 423, 1072-1079.	3.1	9
46	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
47	MoS₂/graphene van der Waals heterojunctions combined with two-layered Au NP for SERS and catalysis analyse. Optics Express, 2021, 29, 38053.	1.7	7
48	Tuning plasmonic nanostructures in graphene-based nano-sandwiches using ultraviolet/ozone functionalization. Journal of Materials Science, 2021, 56, 1359-1372.	1.7	6
49	Sensitive Flexible Biosensor Based on the Three-Dimensional Layered AgNFs@Graphene Nanohybrids. Sensors and Actuators B: Chemical, 2021, 336, 129737.	4.0	6
50	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
51	Three-dimensional SERS sensor based on the sandwiched G@AgNPs@G/PDMS film. Talanta, 2021, 233, 122481.	2.9	5
52	Study of the room-temperature ferromagnetic GaMnN thin films. Journal of Magnetism and Magnetic Materials, 2015, 378, 447-450.	1.0	4
53	Film wrap nanoparticle system with the graphene nano-spacer for SERS detection. Optics Express, 2021, 29, 1360.	1.7	3
54	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

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55	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