

Lei Chen

List of Publications by Year in descending order

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109
papers

2,659
citations

126907

33
h-index

254184

43
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109
all docs

109
docs citations

109
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced semiconductor charge-transfer resonance: Unprecedented oxygen bidirectional strategy. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128903.	7.8	19
2	Photo-Induced Charge Transfer Enhancement for SERS in a SiO ₂ –Ag–Reduced Graphene Oxide System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5699-5705.	8.0	18
3	Surface-Doped Organic Charge Transfer Cocrystal Heterostructures and Their Variable Dual-Color Light Emission and Propagation. <i>Crystal Growth and Design</i> , 2021, 21, 2699-2710.	3.0	9
4	Charge Transfer on the Surface-Enhanced Raman Scattering of Ag/4-MBA/PEDOT:PSS System: Intermolecular Hydrogen Bonding. <i>Chemosensors</i> , 2021, 9, 111.	3.6	7
5	Charge-Transfer Induced by the Oxygen Vacancy Defects in the Ag/MoO ₃ Composite System. <i>Nanomaterials</i> , 2021, 11, 1292.	4.1	17
6	Modulating Mechanism of the LSPR and SERS in Ag/ITO Film: Carrier Density Effect. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7612-7618.	4.6	24
7	Raman Scattering Methods for Monitoring the Electric Properties of the Postannealed Bulk Heterojunction. <i>ACS Applied Energy Materials</i> , 2021, 4, 8360-8367.	5.1	1
8	Enhanced Surface-Enhanced Raman Scattering Activity of MoS ₂ –Ag–Reduced Graphene Oxide: Structure-Mediated Excitonic Transition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23259-23266.	3.1	8
9	Design and Characterization of Ag@Cu ₂ O-rGO Nanocomposite for the p-Nitrophenol Reduction. <i>Catalysts</i> , 2021, 11, 43.	3.5	3
10	Preparation of Reduced-Graphene-Oxide-Supported CoPt and Ag Nanoparticles for the Catalytic Reduction of 4-Nitrophenol. <i>Catalysts</i> , 2021, 11, 1336.	3.5	10
11	Biomarkers Determination Based on Surface-Enhanced Raman Scattering. <i>Chemosensors</i> , 2020, 8, 118.	3.6	20
12	Improved Charge Transfer Contribution by Cosputtering Ag and ZnO. <i>Nanomaterials</i> , 2020, 10, 1455.	4.1	10
13	SERS Immunosensor of Array Units Surrounded by Particles: A Platform for Auxiliary Diagnosis of Hepatocellular Carcinoma. <i>Nanomaterials</i> , 2020, 10, 2090.	4.1	2
14	Recyclable Magnetic MIP-Based SERS Sensors for Selective, Sensitive, and Reliable Detection of Paclobutrazol Residues in Complex Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14549-14556.	6.7	39
15	Damping resonance and refractive index effect on the layer-by-layer sputtering of Ag and Al ₂ O ₃ on the polystyrene template. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 238, 118430.	3.9	4
16	Size-Dependent Surface-Enhanced Raman Scattering Activity of Ag@Cu _x OS Yolk–Shell Nanostructures: Surface Plasmon Resonance Induced Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16616-16623.	3.1	20
17	Detect, remove and re-use: Sensing and degradation pesticides via 3D tilted ZMRs/Ag arrays. <i>Journal of Hazardous Materials</i> , 2020, 391, 122222.	12.4	50
18	Bridging the neighbor plasma coupling on curved surface array for early hepatocellular carcinoma detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127759.	7.8	15

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19	Carrier dynamic monitoring of a I^- -conjugated polymer: a surface-enhanced Raman scattering method. <i>Chemical Communications</i> , 2020, 56, 2779-2782.	4.1	16
20	Probing the charge-transfer of Ag/PEDOT:PSS/4-MBA by surface-enhanced raman scattering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118451.	3.9	10
21	Fundamental Formation of Three-Dimensional Fe_3O_4 Microcrystals and Practical Application in Anchoring Au as Recoverable Catalyst for Effective Reduction of 4-Nitrophenol. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15151-15161.	3.7	31
22	ZnO nanoparticles on MoS ₂ microflowers for ultrasensitive SERS detection of bisphenol A. <i>Mikrochimica Acta</i> , 2019, 186, 593.	5.0	47
23	Increasing polarization-dependent SERS effects by optimizing the axial symmetry of plasmonic nanostructures. <i>Applied Surface Science</i> , 2019, 494, 87-93.	6.1	16
24	Catalysis of Organic Pollutants Abatement Based on Pt-Decorated Ag@Cu ₂ O Heterostructures. <i>Molecules</i> , 2019, 24, 2721.	3.8	1
25	Architecture design and applications of nanopatterned arrays based on colloidal lithography. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	23
26	Nanohoneycomb Surface-Enhanced Raman Spectroscopy-Active Chip for the Determination of Biomarkers of Hepatocellular Carcinoma. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44617-44623.	8.0	31
27	Controlling the Growth Locations of Ag Nanoparticles at Nanoscale by Shifting LSPR Hotspots. <i>Nanomaterials</i> , 2019, 9, 1553.	4.1	6
28	Facile synthesis of Fe_3O_4 @Au core-shell nanocomposite as a recyclable magnetic surface enhanced Raman scattering substrate for thiram detection. <i>Nanotechnology</i> , 2019, 30, 465703.	2.6	33
29	Disease-related proteins determination based on surface-enhanced Raman spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2019, 54, 856-872.	6.7	10
30	Site-selective growth of Ag nanoparticles controlled by localized surface plasmon resonance of nanobowl arrays. <i>Nanoscale</i> , 2019, 11, 6576-6583.	5.6	34
31	Improved Charge Transfer and Hot Spots by Doping and Modulating the Semiconductor Structure: A High Sensitivity and Renewability Surface-Enhanced Raman Spectroscopy Substrate. <i>Langmuir</i> , 2019, 35, 8921-8926.	3.5	18
32	AgNPs decorated Mg-doped ZnO heterostructure with dramatic SERS activity for trace detection of food contaminants. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8199-8208.	5.5	40
33	Controllable Preparation of SERS-Active Ag-FeS Substrates by a Cosputtering Technique. <i>Molecules</i> , 2019, 24, 551.	3.8	13
34	SERS study of Ag/FeS/4-MBA interface based on the SPR effect. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 147-153.	3.9	21
35	Recent Development of SERS Technology: Semiconductor-Based Study. <i>ACS Omega</i> , 2019, 4, 20101-20108.	3.5	105
36	New Insight into Charge-Transfer Enhancement for SERS in Cosputtering (Ag)(ZnS) System: The Carrier Density Effect. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28846-28851.	3.1	12

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37	Nickel Nanowires Combined with Surface-Enhanced Raman Spectroscopy: Application in Label-Free Detection of Cytochrome c-Mediated Apoptosis. <i>Analytical Chemistry</i> , 2019, 91, 1213-1216.	6.5	24
38	SERS effect on the presence and absence of rGO for Ag@Cu ₂ O core-shell. <i>Materials Science in Semiconductor Processing</i> , 2019, 91, 290-295.	4.0	18
39	Charge Transfer in an Ordered Ag/Cu ₂ S/4-MBA System Based on Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5599-5605.	3.1	40
40	Surface-enhanced Raman scattering from metal and transition metal nano-caped arrays. <i>Superlattices and Microstructures</i> , 2018, 115, 59-66.	3.1	4
41	Design of tunable ultraviolet (UV) absorbance by controlling the Ag Al co-sputtering deposition. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 37-42.	3.9	11
42	Evolution of Micro-structure and Magnetic Properties in L10 CoPt Nanoparticles by Au Addition. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 2553-2557.	1.8	7
43	Eco-friendly seeded Fe ₃ O ₄ -Ag nanocrystals: a new type of highly efficient and low cost catalyst for methylene blue reduction. <i>RSC Advances</i> , 2018, 8, 2209-2218.	3.6	41
44	SERS polarization-dependent effects for an ordered 3D plasmonic tilted silver nanorod array. <i>Nanoscale</i> , 2018, 10, 8106-8114.	5.6	44
45	SERS study of surface plasmon resonance induced carrier movement in Au@Cu ₂ O core-shell nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 608-612.	3.9	28
46	Highly sensitive determination of iron (III) ion based on phenanthroline probe: Surface-enhanced Raman spectroscopy methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 43-46.	3.9	9
47	Enhanced catalyst activity by decorating of Au on Ag@Cu ₂ O nanoshell. <i>Applied Surface Science</i> , 2018, 435, 72-78.	6.1	38
48	Antibody-Free Discrimination of Protein Biomarkers in Human Serum Based on Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2018, 90, 12342-12346.	6.5	22
49	Carrier Density-Dependent Localized Surface Plasmon Resonance and Charge Transfer Observed by Controllable Semiconductor Content. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6047-6051.	4.6	36
50	Facile SERS-active chip (PS@Ag/SiO ₂ /Ag) for the determination of HCC biomarker. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 34-42.	7.8	37
51	Enhanced Catalytic Reduction of 4-Nitrophenol Driven by Fe ₃ O ₄ -Au Magnetic Nanocomposite Interface Engineering: From Facile Preparation to Recyclable Application. <i>Nanomaterials</i> , 2018, 8, 353.	4.1	52
52	Detection and Identification of Estrogen Based on Surface-Enhanced Resonance Raman Scattering (SERRS). <i>Molecules</i> , 2018, 23, 1330.	3.8	29
53	Highly Efficient, Low-Cost, and Magnetically Recoverable FePt@Ag Nanocatalysts: Towards Green Reduction of Organic Dyes. <i>Nanomaterials</i> , 2018, 8, 329.	4.1	21
54	Self-Assembled Ag-Cu ₂ O Nanocomposite Films at Air-Liquid Interfaces for Surface-Enhanced Raman Scattering and Electrochemical Detection of H ₂ O ₂ . <i>Nanomaterials</i> , 2018, 8, 332.	4.1	8

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55	Ag Nanotwin-Assisted Grain Growth-Induced by Stress in SiO ₂ /Ag/SiO ₂ Nanocap Arrays. <i>Nanomaterials</i> , 2018, 8, 436.	4.1	4
56	In Situ Synthesis of Ag@Cu ₂ O-rGO Architecture for Strong Light-Matter Interactions. <i>Nanomaterials</i> , 2018, 8, 444.	4.1	10
57	Controlling the 3D Electromagnetic Coupling in Co-Sputtered Ag@SiO ₂ Nanomace Arrays by Lateral Sises. <i>Nanomaterials</i> , 2018, 8, 493.	4.1	5
58	Design of Hybrid Nanostructural Arrays to Manipulate SERS-Active Substrates by Nanosphere Lithography. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7710-7716.	8.0	47
59	Subtle vertical structures of porous anodic alumina films for use as waveguides. <i>Nanotechnology</i> , 2017, 28, 185703.	2.6	3
60	Surface-Enhanced Raman Scattering (SERS) Active Gold Nanoparticles Decorated on a Porous Polymer Filter. <i>Applied Spectroscopy</i> , 2017, 71, 1543-1550.	2.2	17
61	Effects of amount of benzyl ether and reaction time on the shape and magnetic properties of Fe ₃ O ₄ nanocrystals. <i>Powder Technology</i> , 2017, 319, 53-59.	4.2	24
62	Rational synthesis and tailored optical and magnetic characteristics of Fe ₃ O ₄ @Au composite nanoparticles. <i>Journal of Materials Science</i> , 2017, 52, 10163-10174.	3.7	40
63	Plasmonic-induced SERS enhancement of shell-dependent Ag@Cu ₂ O core-shell nanoparticles. <i>RSC Advances</i> , 2017, 7, 16553-16560.	3.6	55
64	Preparation of Silver Nanocap Arrays and Their Surface-enhanced Raman Scattering Activity. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 1179-1182.	1.9	1
65	Increasing local field by interfacial coupling in nanobowl arrays. <i>RSC Advances</i> , 2017, 7, 43671-43680.	3.6	10
66	Multiplex Immuno-chips for High-Accuracy Detection of AFP-L3% Based on Surface-Enhanced Raman Scattering: Implications for Early Liver Cancer Diagnosis. <i>Analytical Chemistry</i> , 2017, 89, 8877-8883.	6.5	88
67	Iron layer-dependent surface-enhanced raman scattering of hierarchical nanocap arrays. <i>Applied Surface Science</i> , 2017, 423, 1124-1133.	6.1	15
68	Quantitative Determination of Iron Ions Based on a Resonance Raman (RR) Probe-Phenanthroline. <i>Analytical Sciences</i> , 2017, 33, 23-27.	1.6	8
69	Quantitative Determination of Total Amino Acids Based on Surface-Enhanced Raman Scattering and Ninhydrin Derivatization. <i>Analytical Sciences</i> , 2017, 33, 53-57.	1.6	8
70	Controllable Charge Transfer in Ag-TiO ₂ Composite Structure for SERS Application. <i>Nanomaterials</i> , 2017, 7, 159.	4.1	41
71	Pillar-cap shaped arrays of Ag/SiO ₂ multilayers after annealing treatment as a SERS-active substrate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 96-103.	4.7	11
72	The mechanism of an enzymatic reaction-induced SERS transformation for the study of enzyme-molecule interfacial interactions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31787-31795.	2.8	11

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73	Au-MPY/DTNB@SiO ₂ SERS nanoprobe for immunosorbent assay. <i>Vibrational Spectroscopy</i> , 2016, 87, 34-39.	2.2	2
74	Design of Cu ₂ O-Au composite microstructures for surface-enhanced Raman scattering study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 96-102.	4.7	32
75	Mercury species induced frequency-shift of molecular orientational transformation based on SERS. <i>Analyst, The</i> , 2016, 141, 4782-4788.	3.5	24
76	A Turn-On Resonance Raman Scattering (BCS/Cu ⁺) Sensor for Quantitative Determination of Proteins. <i>Applied Spectroscopy</i> , 2016, 70, 355-362.	2.2	4
77	Nanocap array of Au:Ag composite for surface-enhanced Raman scattering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 461-467.	3.9	24
78	Au/Ag bimetal nanogap arrays with tunable morphologies for surface-enhanced Raman scattering. <i>RSC Advances</i> , 2015, 5, 7454-7460.	3.6	18
79	Enhanced Raman scattering when scatterer molecules located in TiO ₂ /Ag nanojunctions. <i>RSC Advances</i> , 2015, 5, 64235-64239.	3.6	8
80	Preparation of a Superhydrophobic and Peroxidase-like Activity Array Chip for H ₂ O ₂ Sensing by Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23472-23480.	8.0	59
81	Simple immersion to prepare a Zn/Ag biomimetic superhydrophobic surface and exploring its applications on SERS. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 467, 224-232.	4.7	15
82	Vibrational spectroscopy and density functional theory study of 3-[4,5-dimethyl-2-thiazolyl]-2,5-diphenyl-2H-tetrazolium bromide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 1-6.	3.9	4
83	Ordered Nanocap Array Composed of SiO ₂ -Isolated Ag Islands as SERS Platform. <i>Langmuir</i> , 2014, 30, 15285-15291.	3.5	38
84	Magnetic Titanium Dioxide Nanocomposites for Surface-Enhanced Resonance Raman Spectroscopic Determination and Degradation of Toxic Anilines and Phenols. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2481-2484.	13.8	57
85	A SERS-active enzymatic product used for the quantification of disease-related molecules. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 75-81.	2.5	35
86	Multiple detection of proteins by SERS-based immunoassay with core shell magnetic gold nanoparticles. <i>Vibrational Spectroscopy</i> , 2014, 72, 44-49.	2.2	44
87	Vibrational spectroscopy and density functional theory study of 4-mercaptophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 698-703.	3.9	14
88	Magnetic imprinted surface enhanced Raman scattering (MI-SERS) based ultrasensitive detection of ciprofloxacin from a mixed sample. <i>Analytical Methods</i> , 2014, 6, 1627-1632.	2.7	38
89	One-step detection of melamine in milk by hollow gold chip based on surface-enhanced Raman scattering. <i>Talanta</i> , 2014, 122, 80-84.	5.5	40
90	Sensitive metal ions (II) determination with resonance Raman method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 52-56.	3.9	9

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91	Predictive Value of the Surface-Enhanced Resonance Raman Scattering-Based MTT Assay: A Rapid and Ultrasensitive Method for Cell Viability in Situ. <i>Analytical Chemistry</i> , 2013, 85, 7361-7368.	6.5	33
92	Immune recognition construct plasmonic dimer for SERS-based bioassay. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1253-1258.	2.5	5
93	Recyclable, Biocompatible, Magnetic Titanium Dioxide Nanoparticles with Immobilized Enzymes for Biocatalysis. <i>ChemPlusChem</i> , 2013, 78, 1437-1439.	2.8	6
94	Detection of the potential tumor marker of AFP using surface-enhanced Raman scattering-based immunoassay. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1649-1653.	2.5	36
95	Multiphonon Resonant Raman Scattering and Photoinduced Charge-Transfer Effects at ZnO-Molecule Interfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26908-26918.	3.1	37
96	Interfacial Charge-Transfer Effects in Semiconductor-Molecule-Metal Structures: Influence of Contact Variation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14701-14710.	3.1	40
97	Biomagnetic glass beads for protein separation and detection based on surface-enhanced Raman scattering. <i>Analytical Methods</i> , 2012, 4, 1643.	2.7	14
98	Quantitative evaluation of proteins with bicinchoninic acid (BCA): resonance Raman and surface-enhanced resonance Raman scattering-based methods. <i>Analyst</i> , 2012, 137, 5834.	3.5	29
99	Magnetic assistance highly sensitive protein assay based on surface-enhanced resonance Raman scattering. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 282-286.	9.4	24
100	Surface-enhanced Raman scattering of molecules adsorbed on Co-doped ZnO nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 61-64.	2.5	48
101	Metal-Semiconductor Contacts Induce the Charge-Transfer Mechanism of Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18378-18383.	3.1	67
102	Tunable plasmon properties of Fe ₂ O ₃ @Ag substrate for surface-enhanced Raman scattering. <i>Analytical Methods</i> , 2011, 3, 1622.	2.7	15
103	Label-Free Indirect Immunoassay Using an Avidin-Induced Surface-Enhanced Raman Scattering Substrate. <i>Small</i> , 2011, 7, 316-320.	10.0	35
104	SERS detection of proteins on micropatterned protein-mediated sandwich substrates. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1492-1496.	2.5	16
105	Zincon as resonance Raman probe for quantitative evaluation of proteins. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1963-1966.	2.5	11
106	Detection of proteins on Silica-Silver Core-Shell substrates by surface-enhanced Raman spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 482-487.	9.4	45
107	Site-specific deposition of Ag nanoparticles on ZnO nanorod arrays via galvanic reduction and their SERS applications. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 907-913.	2.5	54
108	Coomassie Brilliant Dyes as Surface-Enhanced Raman Scattering Probes for Protein-Ligand Recognitions. <i>Analytical Chemistry</i> , 2010, 82, 4102-4106.	6.5	50

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109	Ultrasensitive Detection of 1, 4-Bis(4-Vinylpyridyl)Phenylene in a Small Volume of Low Refractive Index Liquid by Surface-Enhanced Raman Scattering-Active Light Waveguide. Applied Spectroscopy, 2004, 58, 414-419.	2.2	19