

Mengtao Sun

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293
papers

13,111
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58
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104
g-index

304
ext. papers

14,941
ext. citations

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avg, IF

7.08
L-index

#	Paper	IF	Citations
293	Ultrafast charge transfer in atomically thin MoS ₂ /WS ₂ heterostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 682-6	28.7	1432
292	Elastic properties of chemical-vapor-deposited monolayer MoS ₂ , WS ₂ , and their bilayer heterostructures. <i>Nano Letters</i> , 2014 , 14, 5097-103	11.5	384
291	A novel application of plasmonics: plasmon-driven surface-catalyzed reactions. <i>Small</i> , 2012 , 8, 2777-86	11	363
290	Nanoplasmonic waveguides: towards applications in integrated nanophotonic circuits. <i>Light: Science and Applications</i> , 2015 , 4, e294-e294	16.7	361
289	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. <i>RSC Advances</i> , 2017 , 7, 16801-16822	3.7	340
288	Reduced graphene oxide electrically contacted graphene sensor for highly sensitive nitric oxide detection. <i>ACS Nano</i> , 2011 , 5, 6955-61	16.7	321
287	Ascertaining p,p'-dimercaptoazobenzene produced from p-aminothiophenol by selective catalytic coupling reaction on silver nanoparticles. <i>Langmuir</i> , 2010 , 26, 7737-46	4	313
286	Aqueous-processable noncovalent chemically converted graphene-quantum dot composites for flexible and transparent optoelectronic films. <i>Advanced Materials</i> , 2010 , 22, 638-42	24	277
285	In-situ plasmon-driven chemical reactions revealed by high vacuum tip-enhanced Raman spectroscopy. <i>Scientific Reports</i> , 2012 , 2, 647	4.9	234
284	Substrate-, wavelength-, and time-dependent plasmon-assisted surface catalysis reaction of 4-nitrobenzenethiol dimerizing to p,p'-dimercaptoazobenzene on Au, Ag, and Cu films. <i>Langmuir</i> , 2011 , 27, 10677-82	4	202
283	Photoinduced intramolecular charge transfer and S2 fluorescence in thiophene-pi-conjugated donor-acceptor systems: experimental and TDDFT studies. <i>Chemistry - A European Journal</i> , 2008 , 14, 6935-47	4.8	190
282	Electrical properties and applications of graphene, hexagonal boron nitride (h-BN), and graphene/h-BN heterostructures. <i>Materials Today Physics</i> , 2017 , 2, 6-34	8	188
281	Theoretical Characterization of the PC60BM:PDDTT Model for an Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21865-21873	3.8	186
280	Remotely excited Raman optical activity using chiral plasmon propagation in Ag nanowires. <i>Light: Science and Applications</i> , 2013 , 2, e112-e112	16.7	168
279	Nanowire-supported plasmonic waveguide for remote excitation of surface-enhanced Raman scattering. <i>Light: Science and Applications</i> , 2014 , 3, e199-e199	16.7	167
278	Plasmon-driven reaction controlled by the number of graphene layers and localized surface plasmon distribution during optical excitation. <i>Light: Science and Applications</i> , 2015 , 4, e342-e342	16.7	154
277	Tip-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016 , 88, 9328-9346	7.8	144

276	Plasmon-exciton coupling of monolayer MoS ₂ -Ag nanoparticles hybrids for surface catalytic reaction. <i>Materials Today Energy</i> , 2017 , 5, 72-78	7	132
275	The pH-Controlled Plasmon-Assisted Surface Photocatalysis Reaction of 4-Aminothiophenol to p,p'-Dimercaptoazobenzene on Au, Ag, and Cu Colloids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9629-9636	3.8	131
274	High-density three-dimension graphene macroscopic objects for high-capacity removal of heavy metal ions. <i>Scientific Reports</i> , 2013 , 3, 2125	4.9	115
273	Is 4-nitrobenzenethiol converted to p,p'-dimercaptoazobenzene or 4-aminothiophenol by surface photochemistry reaction?. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1205-1206	2.3	111
272	External Electric Field-Dependent Photoinduced Charge Transfer in a Donor-Acceptor System for an Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15879-15889	3.8	108
271	Facile Fabrication of High-Density Sub-1-nm Gaps from Au Nanoparticle Monolayers as Reproducible SERS Substrates. <i>Advanced Functional Materials</i> , 2016 , 26, 8137-8145	15.6	108
270	Can p,p'-Dimercaptoazobisbenzene Be Produced from p-Aminothiophenol by Surface Photochemistry Reaction in the Junctions of a Ag Nanoparticle-Molecule-Ag (or Au) Film?. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18263-18269	3.8	105
269	Control of structure and photophysical properties by protonation and subsequent intramolecular hydrogen bonding. <i>Journal of Chemical Physics</i> , 2006 , 124, 054903	3.9	104
268	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. <i>ACS Photonics</i> , 2015 , 2, 790-796	6.3	102
267	Ultrafast Dynamics of Plasmon-Exciton Interaction of Ag Nanowire- Graphene Hybrids for Surface Catalytic Reactions. <i>Scientific Reports</i> , 2016 , 6, 32724	4.9	101
266	Recent progress in the applications of graphene in surface-enhanced Raman scattering and plasmon-induced catalytic reactions. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9024-9037	7.1	100
265	Exciton-plasmon coupling interactions: from principle to applications. <i>Nanophotonics</i> , 2018 , 7, 145-167	6.3	95
264	Comparison of the electronic structure of PPV and its derivative DIOXA-PPV. <i>Chemical Physics</i> , 2006 , 327, 474-484	2.3	94
263	Propagating Surface Plasmon Polaritons: Towards Applications for Remote-Excitation Surface Catalytic Reactions. <i>Advanced Science</i> , 2016 , 3, 1500215	13.6	91
262	Electrically enhanced hot hole driven oxidation catalysis at the interface of a plasmon-exciton hybrid. <i>Nanoscale</i> , 2018 , 10, 5482-5488	7.7	90
261	Probing local strain at MX(2)-metal boundaries with surface plasmon-enhanced Raman scattering. <i>Nano Letters</i> , 2014 , 14, 5329-34	11.5	87
260	Visualized method of chemical enhancement mechanism on SERS and TERS. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 533-540	2.3	85
259	DNA System: Light Harvesting, Charge Transfer, and Molecular Designing. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12546-12561	3.8	83

258	Plasmonic scissors for molecular design. <i>Chemistry - A European Journal</i> , 2013 , 19, 14958-62	4.8	83
257	The charge transfer mechanism and spectral properties of a near-infrared heptamethine cyanine dye in alcoholic and aprotic solvents. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 187, 305-310	4.7	83
256	Electrooptical Synergy on Plasmon-Exciton-Codriven Surface Reduction Reactions. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700869	4.6	82
255	Surface plasmon-driven photocatalysis in ambient, aqueous and high-vacuum monitored by SERS and TERS. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016 , 27, 100-112	16.4	81
254	Effect of electric field gradient on sub-nanometer spatial resolution of tip-enhanced Raman spectroscopy. <i>Scientific Reports</i> , 2015 , 5, 9240	4.9	80
253	Layer-Controlled and Wafer-Scale Synthesis of Uniform and High-Quality Graphene Films on a Polycrystalline Nickel Catalyst. <i>Advanced Functional Materials</i> , 2012 , 22, 3153-3159	15.6	80
252	High vacuum tip-enhanced Raman spectroscopy based on a scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2016 , 87, 033104	1.7	80
251	Unified Treatment for Plasmon-Exciton Co-driven Reduction and Oxidation Reactions. <i>Langmuir</i> , 2017 , 33, 12102-12107	4	79
250	Insights into the nature of plasmon-driven catalytic reactions revealed by HV-TERS. <i>Nanoscale</i> , 2013 , 5, 3249-52	7.7	78
249	Optical properties of low band gap alternating copolyfluorenes for photovoltaic devices. <i>Journal of Chemical Physics</i> , 2005 , 123, 204718	3.9	78
248	Direct visual evidence for the chemical mechanism of surface-enhanced resonance Raman scattering via charge transfer. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 137-143	2.3	77
247	Chemical mechanism of surface-enhanced resonance Raman scattering via charge transfer in pyridine-Ag ₂ complex. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 402-408	2.3	73
246	Activated vibrational modes and Fermi resonance in tip-enhanced Raman spectroscopy. <i>Physical Review E</i> , 2013 , 87, 020401	2.4	72
245	Photoinduced intramolecular charge-transfer state in thiophene- π -conjugated donor-acceptor molecules. <i>Journal of Molecular Structure</i> , 2008 , 876, 102-109	3.4	68
244	Interlayer catalytic exfoliation realizing scalable production of large-size pristine few-layer graphene. <i>Scientific Reports</i> , 2013 , 3, 1134	4.9	67
243	Physical mechanism on exciton-plasmon coupling revealed by femtosecond pump-probe transient absorption spectroscopy. <i>Materials Today Physics</i> , 2017 , 3, 33-40	8	63
242	Plasmon-enhanced upconversion photoluminescence: Mechanism and application. <i>Reviews in Physics</i> , 2019 , 4, 100026	11.3	63
241	Far-Field Spectroscopy and Near-Field Optical Imaging of Coupled Plasmon-Phonon Polaritons in 2D van der Waals Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 2931-8	24	61

240	The thermal and thermoelectric properties of in-plane C-BN hybrid structures and graphene/h-BN van der Waals heterostructures. <i>Materials Today Physics</i> , 2018 , 5, 29-57	8	60
239	Plasmonic Gradient Effects on High Vacuum Tip-Enhanced Raman Spectroscopy. <i>Advanced Optical Materials</i> , 2014 , 2, 74-80	8.1	59
238	Visualizations of transition dipoles, charge transfer, and electron-hole coherence on electronic state transitions between excited states for two-photon absorption. <i>Journal of Chemical Physics</i> , 2008 , 128, 064106	3.9	59
237	Visualization of Photoinduced Charge Transfer and Electron-Hole Coherence in Two-Photon Absorption. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14132-14143	3.8	58
236	Submonolayer-Pt-Coated Ultrathin Au Nanowires and Their Self-Organized Nanoporous Film: SERS and Catalysis Active Substrates for Operando SERS Monitoring of Catalytic Reactions. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 969-75	6.4	58
235	Photoinduced Electron Transfer in Organic Solar Cells. <i>Chemical Record</i> , 2016 , 16, 734-53	6.6	57
234	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. <i>Scientific Reports</i> , 2015 , 5, 16019	4.9	57
233	Unraveling the Raman Enhancement Mechanism on 1T'-Phase ReS Nanosheets. <i>Small</i> , 2018 , 14, e17040791		56
232	Ag nanoparticles-TiO ₂ film hybrid for plasmon-exciton co-driven surface catalytic reactions. <i>Applied Materials Today</i> , 2017 , 9, 251-258	6.6	56
231	Direct visualization of the chemical mechanism in SERRS of 4-aminothiophenol/metal complexes and metal/4-aminothiophenol/metal junctions. <i>ChemPhysChem</i> , 2009 , 10, 392-9	3.2	56
230	Insight into external electric field dependent photoinduced intermolecular charge transport in BHJ solar cell materials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4810-4819	7.1	54
229	Chemical and electromagnetic mechanisms of tip-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9412-9	3.6	54
228	Fabrication of a Au nanoporous film by self-organization of networked ultrathin nanowires and its application as a surface-enhanced Raman scattering substrate for single-molecule detection. <i>Analytical Chemistry</i> , 2011 , 83, 9131-7	7.8	51
227	Theoretical Investigations of Optical Origins of Fluorescent Graphene Quantum Dots. <i>Scientific Reports</i> , 2016 , 6, 24850	4.9	49
226	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. <i>Nanophotonics</i> , 2017 , 6, 943-976	6.3	49
225	Surface enhanced Raman scattering of pyridine adsorbed on Au@Pd core/shell nanoparticles. <i>Journal of Chemical Physics</i> , 2009 , 130, 234705	3.9	49
224	Electric field gradient quadrupole Raman modes observed in plasmon-driven catalytic reactions revealed by HV-TERS. <i>Nanoscale</i> , 2013 , 5, 4151-5	7.7	48
223	Control of emission by intermolecular fluorescence resonance energy transfer and intermolecular charge transfer. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6324-8	2.8	48

222	Magnetics and spintronics on two-dimensional composite materials of graphene/hexagonal boron nitride. <i>Materials Today Physics</i> , 2017 , 3, 93-117	8	47
221	Plasmon-driven surface catalysis in hybridized plasmonic gap modes. <i>Scientific Reports</i> , 2014 , 4, 7087	4.9	47
220	Formation of Enhanced Uniform Chiral Fields in Symmetric Dimer Nanostructures. <i>Scientific Reports</i> , 2015 , 5, 17534	4.9	47
219	Interfacial charge transfer exciton enhanced by plasmon in 2D in-plane lateral and van der Waals heterostructures. <i>Applied Physics Letters</i> , 2020 , 117, 091601	3.4	46
218	Plasmon-exciton coupling by hybrids between graphene and gold nanorods vertical array for sensor. <i>Applied Materials Today</i> , 2019 , 14, 166-174	6.6	46
217	Plasmon-driven sequential chemical reactions in an aqueous environment. <i>Scientific Reports</i> , 2014 , 4, 5407	4.9	45
216	Optoelectronic properties and applications of graphene-based hybrid nanomaterials and van der Waals heterostructures. <i>Applied Materials Today</i> , 2019 , 16, 1-20	6.6	43
215	Remote Excitation Polarization-Dependent Surface Photochemical Reaction by Plasmonic Waveguide. <i>Plasmonics</i> , 2011 , 6, 681-687	2.4	43
214	Two-dimensional black phosphorus: physical properties and applications. <i>Materials Today Physics</i> , 2019 , 8, 92-111	8	42
213	Synergistic modulation of surface interaction to assemble metal nanoparticles into two-dimensional arrays with tunable plasmonic properties. <i>Small</i> , 2014 , 10, 609-16	11	42
212	Remote Excitation of Surface-Enhanced Raman Scattering on Single Au Nanowire with Quasi-Spherical Termini. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3558-3561	3.8	42
211	Atomic-Level-Designed Catalytically Active Palladium Atoms on Ultrathin Gold Nanowires. <i>Advanced Materials</i> , 2017 , 29, 1604571	24	41
210	A plasmon-driven selective surface catalytic reaction revealed by surface-enhanced Raman scattering in an electrochemical environment. <i>Scientific Reports</i> , 2015 , 5, 11920	4.9	41
209	Plasmon-Driven Selective Reductions Revealed by Tip-Enhanced Raman Spectroscopy. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300125	4.6	40
208	Molecular resonant dissociation of surface-adsorbed molecules by plasmonic nanoscissors. <i>Nanoscale</i> , 2014 , 6, 4903-8	7.7	39
207	Plasmon-Exciton Coupling Interaction for Surface Catalytic Reactions. <i>Chemical Record</i> , 2018 , 18, 481-496	6.6	38
206	Local and remote charge-transfer-enhanced Raman scattering on one-dimensional transition-metal oxides. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1824-9	4.5	38
205	Photoactive layer based on T-shaped benzimidazole dyes used for solar cell: from photoelectric properties to molecular design. <i>Scientific Reports</i> , 2017 , 7, 45688	4.9	37

204	Tip-Enhanced Resonance Couplings Revealed by High Vacuum Tip-Enhanced Raman Spectroscopy. <i>Advanced Optical Materials</i> , 2013 , 1, 449-455	8.1	37
203	Deep ultraviolet tip-enhanced Raman scattering. <i>Chemical Communications</i> , 2011 , 47, 9131-3	5.8	37
202	Near field plasmonic gradient effects on high vacuum tip-enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 783-94	3.6	36
201	The Thermal, Electrical and Thermoelectric Properties of Graphene Nanomaterials. <i>Nanomaterials</i> , 2019 , 9,	5.4	36
200	Site-selected N vacancy of g-C ₃ N ₄ for photocatalysis and physical mechanism. <i>Applied Materials Today</i> , 2018 , 13, 329-338	6.6	36
199	Graphitic carbon nitride nanostructures: Catalysis. <i>Applied Materials Today</i> , 2019 , 16, 388-424	6.6	35
198	The linear and non-linear optical absorption and asymmetrical electromagnetic interaction in chiral twisted bilayer graphene with hybrid edges. <i>Materials Today Physics</i> , 2020 , 14, 100222	8	35
197	Plasmon-driven catalysis in aqueous solutions probed by SERS spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 877-883	2.3	34
196	DFT study of adsorption site effect on surface-enhanced Raman scattering of neutral and charged pyridine-Ag ₄ complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 382-7	4.4	33
195	S ₁ and S ₂ excited states of gas-phase Schiff-base retinal chromophores: a time-dependent density functional theoretical investigation. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2946-50	2.8	33
194	Photoabsorption of green and red fluorescent protein chromophore anions in vacuo. <i>Biophysical Chemistry</i> , 2007 , 129, 218-23	3.5	33
193	Self-assembly of Au@Ag core-shell nanocuboids into staircase superstructures by droplet evaporation. <i>Nanoscale</i> , 2017 , 10, 142-149	7.7	32
192	Direct visual evidence for quinoidal charge delocalization in poly-p-phenylene cation radical. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13266-70	3.4	32
191	Plasmon-Driven Diazo Coupling Reactions of p-Nitroaniline via NH_2 or NO_2 in Atmosphere Environment. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5225-5231	3.8	31
190	Properties and applications of new superlattice: twisted bilayer graphene. <i>Materials Today Physics</i> , 2019 , 9, 100099	8	31
189	Ascertaining genuine SERS spectra of p-aminothiophenol. <i>RSC Advances</i> , 2012 , 2, 8289	3.7	31
188	A one-step facile synthesis of Ag@Ni core-shell nanoparticles in water-in-oil microemulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 367, 96-101	5.1	31
187	Excited state properties of novel p- and n-type organic semiconductors with an anthracene unit. <i>Chemical Physics</i> , 2006 , 320, 155-163	2.3	31

186	Screening and design of high-performance indoline-based dyes for DSSCs. <i>RSC Advances</i> , 2017 , 7, 20520-20536	3.0	30
185	Visualizations of Electric and Magnetic Interactions in Electronic Circular Dichroism and Raman Optical Activity. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 8071-8081	2.8	30
184	Multiple surface plasmon resonances enhanced nonlinear optical microscopy. <i>Nanophotonics</i> , 2019 , 8, 487-493	6.3	30
183	A Nanoplasmonic Strategy for Precision in-situ Measurements of Tip-enhanced Raman and Fluorescence Spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 19558	4.9	30
182	Intramolecular charge transfer and locally excited states of the fullerene-linked quarter-thiophenes dyad. <i>Chemical Physics Letters</i> , 2005 , 413, 110-117	2.5	30
181	Physical mechanism of photoinduced intermolecular charge transfer enhanced by fluorescence resonance energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13558-13565	3.6	29
180	Do coupling exciton and oscillation of electron-hole pair exist in neutral and charged pi-dimeric quinuethiophenes?. <i>Journal of Chemical Physics</i> , 2007 , 127, 084706	3.9	29
179	Photoinduced Charge Transfer in Donor-Bridge-Acceptor in One- and Two-photon Absorption: Sequential and Superexchange Mechanisms. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4968-4981	3.8	28
178	Photoinduced Charge Transport in a BHJ Solar Cell Controlled by an External Electric Field. <i>Scientific Reports</i> , 2015 , 5, 13970	4.9	28
177	Can information of chemical reaction propagate with plasmonic waveguide and be detected at remote terminal of nanowire?. <i>Nanoscale</i> , 2011 , 3, 4114-6	7.7	28
176	Direct visual evidence for the chemical mechanism of surface-enhanced resonance Raman scattering via charge transfer: (II) Binding-site and quantum-size effects. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1172-1177	2.3	28
175	Excited state properties of the chromophore of the asFP595 chromoprotein: 2D and 3D theoretical analyses. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 1020-1026	2.1	28
174	Excited state properties of acceptor-substitute carotenoids: 2D and 3D real-space analysis. <i>Chemical Physics Letters</i> , 2005 , 401, 558-564	2.5	28
173	External Electric Field-Dependent Photoinduced Charge Transfer in a Donor-Acceptor System in Two-Photon Absorption. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2319-2332	3.8	28
172	Two-dimensional WS/MoS heterostructures: properties and applications. <i>Nanoscale</i> , 2021 , 13, 5594-5619	7.7	28
171	Nanoscale Vertical Arrays of Gold Nanorods by Self-Assembly: Physical Mechanism and Application. <i>Nanoscale Research Letters</i> , 2019 , 14, 118	5	27
170	Optical characterizations of two-dimensional materials using nonlinear optical microscopies of CARS, TPEF, and SHG. <i>Nanophotonics</i> , 2018 , 7, 873-881	6.3	27
169	Accurate double many-body expansion potential energy surface by extrapolation to the complete basis set limit and dynamics calculations for ground state of NH ₂ . <i>Journal of Computational Chemistry</i> , 2013 , 34, 1686-96	3.5	27

168	Accurate ab initio-based adiabatic global potential energy surface for the 2(2)A" state of NH2 by extrapolation to the complete basis set limit. <i>Journal of Chemical Physics</i> , 2013 , 139, 154305	3.9	27
167	Ultrafast carrier transfer evidencing graphene electromagnetically enhanced ultrasensitive SERS in graphene/Ag-nanoparticles hybrid. <i>Carbon</i> , 2017 , 122, 98-105	10.4	26
166	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. <i>Materials Today Nano</i> , 2020 , 12, 100091	9.7	26
165	Tip-enhanced photoluminescence spectroscopy of monolayer MoS ₂ . <i>Photonics Research</i> , 2017 , 5, 745	6	26
164	Charge transfer state induced from locally excited state by polar solvent. <i>Chemical Physics Letters</i> , 2005 , 408, 128-133	2.5	26
163	Intramolecular charge transfer in the porphyrin- <i>ligothiophene</i> -fullerene triad. <i>Chemical Physics Letters</i> , 2005 , 416, 94-99	2.5	26
162	Vibronic quantized tunneling controlled photoinduced electron transfer in an organic solar cell subjected to an external electric field. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16105-16112	3.6	25
161	Porous size dependent g-C ₃ N ₄ for efficient photocatalysts: Regulation synthesizes and physical mechanism. <i>Materials Today Energy</i> , 2019 , 13, 11-21	7	25
160	Theoretical study on polyaniline gas sensors: Examinations of response mechanism for alcohol. <i>Synthetic Metals</i> , 2012 , 162, 862-867	3.6	25
159	Ab initio-based double many-body expansion potential energy surface for the first excited triplet state of the ammonia molecule. <i>Journal of Chemical Physics</i> , 2012 , 136, 194705	3.9	25
158	Microwave-assisted synthesis of sensitive silver substrate for surface-enhanced Raman scattering spectroscopy. <i>Journal of Chemical Physics</i> , 2008 , 129, 134703	3.9	25
157	How was the proton transfer process in bis-3, 6-(2- benzoxazolyl)-pyrocatechol, single or double proton transfer?. <i>Scientific Reports</i> , 2016 , 6, 25568	4.9	25
156	Plasmon-Exciton co-driven surface catalytic reaction in electrochemical G-SERS. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1144-1147	2.3	24
155	Selective plasmon-driven catalysis for para-nitroaniline in aqueous environments. <i>Scientific Reports</i> , 2016 , 6, 20458	4.9	23
154	Photoinduced charge transfer by one and two-photon absorptions: physical mechanisms and applications. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19720-19743	3.6	23
153	Remote Excitation Surface Plasmon and Consequent Enhancement of Surface-Enhanced Raman Scattering Using Evanescent Wave Propagating in Quasi-One-Dimensional MoO ₃ Ribbon Dielectric Waveguide. <i>Plasmonics</i> , 2011 , 6, 189-193	2.4	23
152	Theoretical study on SERRS of rhodamine 6G adsorbed on Ag ₂ cluster: chemical mechanism via intermolecular or intramolecular charge transfer. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1170-1177	2.3	22
151	An in situ SERS study of substrate-dependent surface plasmon induced aromatic nitration. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5285-5291	7.1	21

150	Effect of aqueous and ambient atmospheric environments on plasmon-driven selective reduction reactions. <i>Scientific Reports</i> , 2015 , 5, 10269	4.9	21
149	Electronic transport properties of graphene nanoribbon arrays fabricated by unzipping aligned nanotubes. <i>Physical Review B</i> , 2013 , 87,	3.3	21
148	Direct visual evidence for chemical mechanisms of SERRS via charge transfer in Au ₂₀ Pyrazine ₄ Au ₂₀ junction. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1942-1948	2.3	21
147	Intermolecular charge and energy transfer in neurosporene and chlorophyll a derivative complex. <i>Chemical Physics Letters</i> , 2005 , 412, 425-429	2.5	21
146	Graphene plasmon for optoelectronics. <i>Reviews in Physics</i> , 2021 , 6, 100054	11.3	21
145	The nature of chirality induced by molecular aggregation and self-assembly. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 212, 188-198	4.4	21
144	Plasmonic electrons enhanced resonance Raman scattering (EERRS) and electrons enhanced fluorescence (EEF) spectra. <i>Applied Materials Today</i> , 2018 , 13, 298-302	6.6	21
143	Near- and Deep-Ultraviolet Resonance Raman Spectroscopy of Pyrazine ₄ Al ₃ Complex and Al ₃ Pyrazine ₄ Junction. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19328-19334	3.8	20
142	Physical principle and advances in plasmon-enhanced upconversion luminescence. <i>Applied Materials Today</i> , 2019 , 15, 43-57	6.6	20
141	Plasmon-driven dimerization via S-S chemical bond in an aqueous environment. <i>Scientific Reports</i> , 2014 , 4, 7221	4.9	19
140	Two-photon photophysical properties of tri-9-anthrylborane. <i>Chemical Physics Letters</i> , 2007 , 436, 280-286.5	6.5	19
139	Plasmon and Plexciton Driven Interfacial Catalytic Reactions. <i>Chemical Record</i> , 2021 , 21, 797-819	6.6	19
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