Mengtao Sun

List of Publications by Year in Descending Order

293 papers	13,111 citations	58 h-index	104 g-index
304 ext. papers	14,941 ext. citations	5.1 avg, IF	7.08 L-index

#	Paper	IF	Citations
293	Two-Dimensional Self-Assembly of Au@Ag Core-Shell Nanocubes with Different Permutations for Ultrasensitive SERS Measurements.. *ACS Omega*, **2022**, 7, 3312-3323	3.9	1
292	Optical non-reciprocity with multiple modes in the visible range based on a hybrid metallic nanowaveguide. *Journal Physics D: Applied Physics*, **2022**, 55, 195102	3	
291	Electronic structures and optical properties of monolayer borophenes.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 272, 121014	4.4	2
290	Tip-enhanced two-photon-excited fluorescence of monolayer MoS2. *Applied Surface Science*, **2022**, 576, 151835	6.7	0
289	Phonon-assisted Interfacial Charge Transfer Excitons in Graphene/h-BN van der Waals Heterostructures. *Chinese Journal of Physics*, **2022**, 76, 110-120	3.5	1
288	Molecular and plasmonic resonances on tip-enhanced Raman spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 265, 120360	4.4	2
287	In situ Plasmon-Enhanced CARS and TPEF for Gram staining identification of non-fluorescent bacteria. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 264, 120283	4.4	9
286	Unified treatment for photoluminescence and scattering of coupled metallic nanostructures: I. Two-body system. *New Journal of Physics*, **2022**, 24, 033026	2.9	3
285	Bilayer borophene synthesized on Ag(111) film: Physical mechanism and applications for optical sensor and thermoelectric devices. *Materials Today Physics*, **2022**, 23, 100652	8	2
284	Tip-enhanced Raman spectroscopy. *Reviews in Physics*, **2022**, 8, 100067	11.3	10
283	Strongly enhanced propagation and non-reciprocal properties of CdSe nanowire based on hybrid nanostructures at communication wavelength of 1550 nm. *Optics Communications*, **2022**, 514, 128175	2	1
282	Exploring Nonemissive Excited-State Intramolecular Proton Transfer by Plasmon-Enhanced Hyper-Raman Scattering and Two-Photon Excitation Fluorescence. *Journal of Physical Chemistry C*, **2022**, 126, 487-492	3.8	4
281	Nonlinear plexcitons: excitons coupled with plasmons in two-photon absorption.. *Nanoscale*, **2022**, 14, 7269-7279	7.7	1
280	Transition Metal Dichalcogenides (TMDCs) Heterostructures: Synthesis, Excitons and Photoelectric Properties.. *Chemical Record*, **2022**, e202100313	6.6	1
279	Spectral investigation on single molecular optoelectronics of ladder phenylenes.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 278, 121283	4.4	0
278	Unified treatment for photoluminescence and scattering of coupled metallic multi□nanostructures. *Results in Physics*, **2022**, 105668	3.7	
277	Physical mechanisms of photoinduced charge transfer in neutral and charged donor-acceptor systems.. *RSC Advances*, **2021**, 11, 38302-38306	3.7	0

276	Carbon Dots: Synthesis, Properties and Applications.. *Nanomaterials*, **2021**, 11,	5.4	17
275	Graphene Plasmon-Enhanced Polarization-Dependent Interfacial Charge Transfer Excitons in 2D Graphene-Black Phosphorus Heterostructures in NIR and MIR Regions. *Journal of Physical Chemistry C*, **2021**, 125, 22370-22378	3.8	9
274	Plasmonic alloy nanochains assembled via dielectrophoresis for ultrasensitive SERS. *Optics Express*, **2021**, 29, 36857-36870	3.3	2
273	Electromagnetic Field Gradient-Enhanced Raman Scattering in TERS Configurations. *Journal of Physical Chemistry C*, **2021**, 125, 5684-5691	3.8	6
272	Molecular chirality of Macrolide antibiotics. *Chemical Physics*, **2021**, 545, 111120	2.3	
271	Pressure-dependent interfacial charge transfer excitons in WSe2-MoSe2 heterostructures in near infrared region. *Results in Physics*, **2021**, 24, 104110	3.7	10
270	Graphene plasmon for optoelectronics. *Reviews in Physics*, **2021**, 6, 100054	11.3	21
269	Plexciton and electron□phonon interaction in tip-enhanced resonance Raman scattering. *Journal of Raman Spectroscopy*, **2021**, 52, 1685	2.3	4
268	Nonlinear optical microscopies: physical principle and applications. *Applied Spectroscopy Reviews*, **2021**, 56, 52-66	4.5	5
267	Electronic circular dichroism and Raman optical activity: Principle and applications. *Applied Spectroscopy Reviews*, **2021**, 56, 553-587	4.5	7
266	Chiral surface plasmon-enhanced chiral spectroscopy: principles and applications. *Nanoscale*, **2021**, 13, 581-601	7.7	15
265	Physical mechanism and electric-magnetic interaction in ECD and ROA: Visualization methods on chirality. *Chemical Physics Letters*, **2021**, 763, 138206	2.5	0
264	Two-dimensional WS/MoS heterostructures: properties and applications. *Nanoscale*, **2021**, 13, 5594-5619	7.7	28
263	Plexcitons, electric field gradient and electron-phonon coupling in tip-enhanced Raman spectroscopy (TERS). *Nanoscale*, **2021**, 13, 10712-10725	7.7	7
262	Plasmon and Plexciton Driven Interfacial Catalytic Reactions. *Chemical Record*, **2021**, 21, 797-819	6.6	19
261	Engineering plasmonic nanochain for optical sensor via regulating electric field. *Optik*, **2021**, 240, 166827	2.5	1
260	Photoinduced charge transfer in two-photon absorption. *Results in Optics*, **2021**, 4, 100099	1	1
259	Plexciton in tip-enhanced resonance Stokes and anti-Stokes Raman spectroscopy and in propagating surface plasmon polaritons. *Optics Communications*, **2021**, 493, 126990	2	9

258	Physical Mechanisms on Plasmon-Enhanced Organic Solar Cells. *Journal of Physical Chemistry C*, **2021**, 125, 21301-21309	3.8	9
257	Structural Color Control of CoFeB-Coated Nanoporous Thin Films. *Coatings*, **2021**, 11, 1123	2.9	1
256	External electric field manipulating sequential and super-exchange charge transfer in donor-bridge-acceptor system in two-photon absorption. *Physica E: Low-Dimensional Systems and Nanostructures*, **2021**, 134, 114840	3	9
255	Unified treatments for localized surface plasmon resonance and propagating surface plasmon polariton based on resonance modes in metal nanowire. *Optics Communications*, **2021**, 499, 127277	2	9
254	Aluminum plasmon-enhanced deep ultraviolet fluorescence resonance energy transfer in h-BN/graphene heterostructure. *Optics Communications*, **2021**, 498, 127224	2	5
253	Mechanical properties of Fe-based bulk amorphous Fe41Co7Cr15Mo14C15B6Y2 alloy rods. *Chemical Physics Letters*, **2020**, 750, 137511	2.5	6
252	Plasmonic Nanoparticle Film for Low-Power NIR-Enhanced Photocatalytic Reaction. *ACS Applied Materials & Interfaces*, **2020**, 12, 16753-16761	9.5	7
251	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. *Materials Today Nano*, **2020**, 12, 100091	9.7	26
250	Photoinduced Charge Transfer in Donor-Bridge-Acceptor in One- and Two-photon Absorption: Sequential and Superexchange Mechanisms. *Journal of Physical Chemistry C*, **2020**, 124, 4968-4981	3.8	28
249	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. *Materials Today Physics*, **2020**, 13, 100196	8	18
248	Spectral analysis on CoOx films deposited by atomic layer deposition. *Chemical Physics Letters*, **2020**, 742, 137159	2.5	2
247	One- and Two-Photon Absorption: Physical Principle and Applications. *Chemical Record*, **2020**, 20, 894-916	6.6	5
246	Nonlinear optical microscopies (NOMs) and plasmon-enhanced NOMs for biology and 2D materials. *Nanophotonics*, **2020**, 9, 1341-1358	6.3	6
245	The linear and non-linear optical absorption and asymmetrical electromagnetic interaction in chiral twisted bilayer graphene with hybrid edges. *Materials Today Physics*, **2020**, 14, 100222	8	35
244	Flexible and transparent Au nanoparticle/graphene/Au nanoparticle "sandwich" substrate for surface-enhanced Raman scattering. *Materials Today Nano*, **2020**, 9, 100067	9.7	14
243	External Electric Field-Dependent Photoinduced Charge Transfer in a Donor–Acceptor System in Two-Photon Absorption. *Journal of Physical Chemistry C*, **2020**, 124, 2319-2332	3.8	28
242	Voltage-manipulating graphene-mediated surface-enhanced Raman scattering (G-SERS): principle and applications. *Applied Spectroscopy Reviews*, **2020**, 55, 558-573	4.5	5
241	Plexciton for surface enhanced Raman scattering and emission. *Journal of Raman Spectroscopy*, **2020**, 51, 476-482	2.3	7

240	Photoninduced charge redistribution of graphene determined by edge structures in the infrared region. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 229, 117858	4.4	7
239	Photo-physical properties of vinigrol revealed by two-photon absorption, electronic circular dichroism, Raman spectroscopy and Raman optical activity. *Chemical Physics Letters*, **2020**, 755, 137798	2.5	3
238	Optical physics on chiral brominated azapirones: Bromophilone A and B. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 242, 118780	4.4	4
237	Optical properties of kalihinol derivatives in TPA, ECD and ROA. *Chemical Physics Letters*, **2020**, 755, 137796	2.5	3
236	Graphitic carbon nitride-based 2D catalysts for green energy: Physical mechanism and applications. *Materials Today Energy*, **2020**, 17, 100488	7	10
235	Nanoplasmonic Nanorods/Nanowires from Single to Assembly: Syntheses, Physical Mechanisms and Applications. *Chemical Record*, **2020**, 20, 1043-1073	6.6	2
234	Electrochemical synthesis of tin plasmonic dendritic nanostructures with SEF capability through replacement.. *RSC Advances*, **2020**, 10, 36042-36050	3.7	1
233	Interfacial charge transfer exciton enhanced by plasmon in 2D in-plane lateral and van der Waals heterostructures. *Applied Physics Letters*, **2020**, 117, 091601	3.4	46
232	Functionalized Gold Nanoparticles: Synthesis, Properties and Biomedical Applications. *Chemical Record*, **2020**, 20, 1474-1504	6.6	15
231	Photoinduced charge transfer in quasi-one-dimensional polymers in two-photon absorption.. *RSC Advances*, **2020**, 10, 33288-33298	3.7	3
230	Visualizations of Electric and Magnetic Interactions in Electronic Circular Dichroism and Raman Optical Activity. *Journal of Physical Chemistry A*, **2019**, 123, 8071-8081	2.8	30
229	Nanoscale Vertical Arrays of Gold Nanorods by Self-Assembly: Physical Mechanism and Application. *Nanoscale Research Letters*, **2019**, 14, 118	5	27
228	Tuning the SERS activity and plasmon-driven reduction of p-nitrothiophenol on a Ag@MoS film. *Faraday Discussions*, **2019**, 214, 297-307	3.6	16
227	Properties and applications of new superlattice: twisted bilayer graphene. *Materials Today Physics*, **2019**, 9, 100099	8	31
226	Tunable electron transfer rate in a CdSe/ZnS-based complex with different anthraquinone chloride substitutes. *Scientific Reports*, **2019**, 9, 7756	4.9	4
225	Visualization of Photoinduced Charge Transfer and Electron□Hole Coherence in Two-Photon Absorption. *Journal of Physical Chemistry C*, **2019**, 123, 14132-14143	3.8	58
224	Porous size dependent g-C3N4 for efficient photocatalysts: Regulation synthesizes and physical mechanism. *Materials Today Energy*, **2019**, 13, 11-21	7	25
223	Tip-enhanced spectroscopy of 2D black phosphorus. *Journal of Raman Spectroscopy*, **2019**, 50, 1058-1064	2.3	6

222	Biological nascent evolution of snail bone and collagen revealed by nonlinear optical microscopy. *Journal of Biophotonics*, **2019**, 12, e201900119	3.1	9
221	Optoelectronic properties and applications of graphene-based hybrid nanomaterials and van der Waals heterostructures. *Applied Materials Today*, **2019**, 16, 1-20	6.6	43
220	Transformation from Quantum to Classical Mode: the Size Effect of Plasmon in 2D Atomic Cluster System. *Scientific Reports*, **2019**, 9, 6641	4.9	0
219	Optical-electrical synergy on electricity manipulating plasmon-driven photoelectrical catalysis. *Applied Materials Today*, **2019**, 15, 305-314	6.6	9
218	ExcitonPlasmon Interactions in Noble MetalSemiconductor Oxide Hybrid Nanostructures **2019**, 157-178		
217	Multiple surface plasmon resonances enhanced nonlinear optical microscopy. *Nanophotonics*, **2019**, 8, 487-493	6.3	30
216	Two-dimensional black phosphorus: physical properties and applications. *Materials Today Physics*, **2019**, 8, 92-111	8	42
215	Physical mechanism on edge-dependent electrons transfer in graphene in mid infrared region. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 216, 136-145	4.4	4
214	Plasmon-driven molecular photodissociations. *Applied Materials Today*, **2019**, 15, 212-235	6.6	12
213	Graphitic carbon nitride nanostructures: Catalysis. *Applied Materials Today*, **2019**, 16, 388-424	6.6	35
212	Ultrafast carrier dynamics in all-inorganic CsPbBr perovskite across the pressure-induced phase transition. *Optics Express*, **2019**, 27, A995-A1003	3.3	17
211	Plasmon-Enhanced Fluorescence Resonance Energy Transfer. *Chemical Record*, **2019**, 19, 818-842	6.6	15
210	The Thermal, Electrical and ThermoelectricProperties of Graphene Nanomaterials. *Nanomaterials*, **2019**, 9,	5.4	36
209	Nonlinear optical characterization of porous carbon materials by CARS, SHG and TPEF. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 214, 58-66	4.4	7
208	Plasmonic nanoparticle-film-assisted photoelectrochemical catalysis across the entire visible-NIR region. *Nanoscale*, **2019**, 11, 23058-23064	7.7	7
207	Plasmon-exciton coupling by hybrids between graphene and gold nanorods vertical array for sensor. *Applied Materials Today*, **2019**, 14, 166-174	6.6	46
206	Deep ultraviolet tip-enhanced fluorescence. *Nanotechnology*, **2019**, 30, 035202	3.4	1
205	The nature of photoinduced intermolecular charger transfer in fluorescence resonance energy transfer. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 209, 228-233	4.4	16

204	Physical principle and advances in plasmon-enhanced upconversion luminescence. *Applied Materials Today*, **2019**, 15, 43-57	6.6	20
203	The nature of chirality induced by molecular aggregation and self-assembly. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 212, 188-198	4.4	21
202	Study of Surface Plasmon Assisted Reactions to Understand the Light-Induced Decarboxylation of N719 Sensitizer. *European Journal of Inorganic Chemistry*, **2019**, 2019, 23-28	2.3	3
201	The Remote Light Emission Modulated by Local Surface Plasmon Resonance for the CdSe NW/Au NP Hybrid Structure. *Advanced Materials Interfaces*, **2019**, 6, 1801418	4.6	4
200	Plasmon-enhanced upconversion photoluminescence: Mechanism and application. *Reviews in Physics*, **2019**, 4, 100026	11.3	63
199	Surface catalytic reaction driven by plasmonic waveguide. *Applied Materials Today*, **2018**, 11, 50-56	6.6	7
198	Electro-optical tuning of plasmon-driven double reduction interface catalysis. *Applied Materials Today*, **2018**, 11, 189-192	6.6	15
197	Physical mechanism of photoinduced intermolecular charge transfer enhanced by fluorescence resonance energy transfer. *Physical Chemistry Chemical Physics*, **2018**, 20, 13558-13565	3.6	29
196	Photocatalytic activity of silver oxide capped Ag nanoparticles constructed by air plasma irradiation. *Applied Physics Letters*, **2018**, 112, 163101	3.4	7
195	Unraveling the Raman Enhancement Mechanism on 1T'-Phase ReS Nanosheets. *Small*, **2018**, 14, e1704079	11	56
194	Electrically enhanced hot hole driven oxidation catalysis at the interface of a plasmon-exciton hybrid. *Nanoscale*, **2018**, 10, 5482-5488	7.7	90
193	Propagating surface plasmon polaritons for remote excitation surface-enhanced Raman scattering spectroscopy. *Applied Spectroscopy Reviews*, **2018**, 53, 771-782	4.5	12
192	Charge-transfer channel in quantum dot-graphene hybrid materials. *Nanotechnology*, **2018**, 29, 145202	3.4	8
191	Femtosecond dynamics of monolayer MoS2-Ag nanoparticles hybrid probed at 532 nm. *Chemical Physics Letters*, **2018**, 692, 208-213	2.5	9
190	Combustion kinetics and structural features of bituminous coal before and after modification process. *Journal of Thermal Analysis and Calorimetry*, **2018**, 131, 983-992	4.1	10
189	Plasmon-Exciton Coupling Interaction for Surface Catalytic Reactions. *Chemical Record*, **2018**, 18, 481-490	6.6	38
188	Exciton-plasmon coupling interactions: from principle to applications. *Nanophotonics*, **2018**, 7, 145-167	6.3	95
187	Photoinduced charge transfer by one and two-photon absorptions: physical mechanisms and applications. *Physical Chemistry Chemical Physics*, **2018**, 20, 19720-19743	3.6	23

186	Optical characterizations of two-dimensional materials using nonlinear optical microscopies of CARS, TPEF, and SHG. *Nanophotonics*, **2018**, 7, 873-881	6.3	27
185	The thermal and thermoelectric properties of in-plane C-BN hybrid structures and graphene/h-BN van der Waals heterostructures. *Materials Today Physics*, **2018**, 5, 29-57	8	60
184	Advances in nonlinear optical microscopy for biophotonics. *Journal of Nanophotonics*, **2018**, 12, 1	1.1	14
183	The nature of plasmon-exciton codriven surface catalytic reaction. *Journal of Raman Spectroscopy*, **2018**, 49, 383-387	2.3	13
182	Plasmonic electrons enhanced resonance Raman scattering (EERRS) and electrons enhanced fluorescence (EEF) spectra. *Applied Materials Today*, **2018**, 13, 298-302	6.6	21
181	Influence of the external field on the excitation properties of plasmon in linear atomic chain. *Scientific Reports*, **2018**, 8, 12563	4.9	2
180	Site-selected N vacancy of g-C3N4 for photocatalysis and physical mechanism. *Applied Materials Today*, **2018**, 13, 329-338	6.6	36
179	Ag Nanoparticle-Induced Oxidative Dimerization of Thiophenols: Efficiency and Mechanism. *Langmuir*, **2018**, 34, 11347-11353	4	6
178	Magnetic field modulated SERS enhancement of CoPt hollow nanoparticles with sizes below 10 nm. *Nanoscale*, **2018**, 10, 12650-12656	7.7	11
177	Nanocrystallization and magnetostriction coefficient of Fe52Co34Hf7B6Cu1 amorphous alloy treated by medium-frequency magnetic pulse. *Journal of Magnetism and Magnetic Materials*, **2018**, 468, 181-184	2.8	3
176	Exciton-plasmon hybrids for surface catalysis detected by SERS. *Nanotechnology*, **2018**, 29, 372001	3.4	15
175	Physical Insight on Mechanism of Photoinduced Charge Transfer in Multipolar Photoactive Molecules. *Scientific Reports*, **2018**, 8, 10089	4.9	9
174	Plasmon-Driven Diazo Coupling Reactions of p-Nitroaniline via □NH2 or □NO2 in Atmosphere Environment. *Journal of Physical Chemistry C*, **2017**, 121, 5225-5231	3.8	31
173	Screening and design of high-performance indoline-based dyes for DSSCs. *RSC Advances*, **2017**, 7, 20520-20536	3.9	30
172	Non-symmetric hybrids of noble metal-semiconductor: Interplay of nanoparticles and nanostructures in formation dynamics and plasmonic applications. *Progress in Natural Science: Materials International*, **2017**, 27, 157-168	3.6	17
171	Morphological effects on the selectivity of intramolecular versus intermolecular catalytic reaction on Au nanoparticles. *Nanoscale*, **2017**, 9, 7727-7733	7.7	15
170	Ultrafast carrier transfer evidencing graphene electromagnetically enhanced ultrasensitive SERS in graphene/Ag-nanoparticles hybrid. *Carbon*, **2017**, 122, 98-105	10.4	26
169	Plasmon-exciton coupling of monolayer MoS 2 -Ag nanoparticles hybrids for surface catalytic reaction. *Materials Today Energy*, **2017**, 5, 72-78	7	132

168	Visualization of weak interactions between quantum dot and graphene in hybrid materials. *Scientific Reports*, **2017**, 7, 417	4.9	8
167	Vibronic quantized tunneling controlled photoinduced electron transfer in an organic solar cell subjected to an external electric field. *Physical Chemistry Chemical Physics*, **2017**, 19, 16105-16112	3.6	25
166	D□A System: Light Harvesting, Charge Transfer, and Molecular Designing. *Journal of Physical Chemistry C*, **2017**, 121, 12546-12561	3.8	83
165	Photoactive layer based on T-shaped benzimidazole dyes used for solar cell: from photoelectric properties to molecular design. *Scientific Reports*, **2017**, 7, 45688	4.9	37
164	Surface-enhanced Raman scattering of pyrazine on Au5Al5 bimetallic nanoclusters. *RSC Advances*, **2017**, 7, 12170-12178	3.7	4
163	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. *RSC Advances*, **2017**, 7, 16801-16822	3.7	340
162	Atomic-Level-Designed Catalytically Active Palladium Atoms on Ultrathin Gold Nanowires. *Advanced Materials*, **2017**, 29, 1604571	24	41
161	Molecular Tilting Alignment on Ag@C Nanocubes Monitored by Temperature-Dependent Surface Enhanced Raman Scattering. *Scientific Reports*, **2017**, 7, 12865	4.9	6
160	Magnetics and spintronics on two-dimensional composite materials of graphene/hexagonal boron nitride. *Materials Today Physics*, **2017**, 3, 93-117	8	47
159	High-Vacuum Tip-Enhanced Raman Spectroscopy **2017**, 129-140		
158	Self-assembly of Au@Ag core-shell nanocuboids into staircase superstructures by droplet evaporation. *Nanoscale*, **2017**, 10, 142-149	7.7	32
157	Ag nanoparticles-TiO2 film hybrid for plasmon-exciton co-driven surface catalytic reactions. *Applied Materials Today*, **2017**, 9, 251-258	6.6	56
156	Electrical properties and applications of graphene, hexagonal boron nitride (h-BN), and graphene/h-BN heterostructures. *Materials Today Physics*, **2017**, 2, 6-34	8	188
155	Plasmon□exciton co-driven surface catalytic reaction in electrochemical G-SERS. *Journal of Raman Spectroscopy*, **2017**, 48, 1144-1147	2.3	24
154	Fluorescence Resonance Energy Transfer of Monomer via Photoisomerization. *ChemistrySelect*, **2017**, 2, 6446-6451	1.8	2
153	Unified Treatment for Plasmon-Exciton Co-driven Reduction and Oxidation Reactions. *Langmuir*, **2017**, 33, 12102-12107	4	79
152	Low resistivity of graphene nanoribbons with zigzag-dominated edge fabricated by hydrogen plasma etching combined with Zn/HCl pretreatment. *Applied Physics Letters*, **2017**, 111, 203102	3.4	3
151	Electrooptical Synergy on Plasmon□Exciton-Codriven Surface Reduction Reactions. *Advanced Materials Interfaces*, **2017**, 4, 1700869	4.6	82

150	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. *Nanophotonics*, **2017**, 6, 943-976	6.3	49
149	Physical mechanism on exciton-plasmon coupling revealed by femtosecond pump-probe transient absorption spectroscopy. *Materials Today Physics*, **2017**, 3, 33-40	8	63
148	Tip-enhanced photoluminescence spectroscopy of monolayer MoS_2. *Photonics Research*, **2017**, 5, 745	6	26
147	Pt-Based Nanostructures for Observing Genuine SERS Spectra of p-Aminothiophenol (PATP) Molecules. *Applied Sciences (Switzerland)*, **2017**, 7, 953	2.6	4
146	Tip-Enhanced Raman Spectroscopy. *Analytical Chemistry*, **2016**, 88, 9328-9346	7.8	144
145	Orientation-and polarization-dependent optical properties of the single Ag nanowire/glass substrate system excited by the evanescent wave. *Scientific Reports*, **2016**, 6, 25633	4.9	10
144	Selective plasmon-driven catalysis for para-nitroaniline in aqueous environments. *Scientific Reports*, **2016**, 6, 20458	4.9	23
143	A Nanoplasmonic Strategy for Precision in-situ Measurements of Tip-enhanced Raman and Fluorescence Spectroscopy. *Scientific Reports*, **2016**, 6, 19558	4.9	30
142	Theoretical Investigations of Optical Origins of Fluorescent Graphene Quantum Dots. *Scientific Reports*, **2016**, 6, 24850	4.9	49
141	Ultrafast Dynamics of Plasmon-Exciton Interaction of Ag Nanowire- Graphene Hybrids for Surface Catalytic Reactions. *Scientific Reports*, **2016**, 6, 32724	4.9	101
140	Photoinduced Electron Transfer in Organic Solar Cells. *Chemical Record*, **2016**, 16, 734-53	6.6	57
139	Surface plasmon-driven photocatalysis in ambient, aqueous and high-vacuum monitored by SERS and TERS. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2016**, 27, 100-112	16.4	81
138	Propagating Surface Plasmon Polaritons: Towards Applications for Remote-Excitation Surface Catalytic Reactions. *Advanced Science*, **2016**, 3, 1500215	13.6	91
137	Ascertaining Plasmonic Hot Electrons Generation from Plasmon Decay in Hybrid Plasmonic Modes. *Plasmonics*, **2016**, 11, 909-915	2.4	4
136	Plasmon-driven catalysis in aqueous solutions probed by SERS spectroscopy. *Journal of Raman Spectroscopy*, **2016**, 47, 877-883	2.3	34
135	Far-Field Spectroscopy and Near-Field Optical Imaging of Coupled Plasmon-Phonon Polaritons in 2D van der Waals Heterostructures. *Advanced Materials*, **2016**, 28, 2931-8	24	61
134	High vacuum tip-enhanced Raman spectroscope based on a scanning tunneling microscope. *Review of Scientific Instruments*, **2016**, 87, 033104	1.7	80
133	How was the proton transfer process in bis-3, 6-(2- benzoxazolyl)-pyrocatechol, single or double proton transfer?. *Scientific Reports*, **2016**, 6, 25568	4.9	25

132	Facile Fabrication of High-Density Sub-1-nm Gaps from Au Nanoparticle Monolayers as Reproducible SERS Substrates. *Advanced Functional Materials*, **2016**, 26, 8137-8145	15.6	108
131	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. *ACS Photonics*, **2015**, 2, 790-796	6.3	102
130	An in situ SERS study of substrate-dependent surface plasmon induced aromatic nitration. *Journal of Materials Chemistry C*, **2015**, 3, 5285-5291	7.1	21
129	Recent progress in the applications of graphene in surface-enhanced Raman scattering and plasmon-induced catalytic reactions. *Journal of Materials Chemistry C*, **2015**, 3, 9024-9037	7.1	100
128	Effect of electric field gradient on sub-nanometer spatial resolution of tip-enhanced Raman spectroscopy. *Scientific Reports*, **2015**, 5, 9240	4.9	80
127	Nanoplasmonic waveguides: towards applications in integrated nanophotonic circuits. *Light: Science and Applications*, **2015**, 4, e294-e294	16.7	361
126	Insight into external electric field dependent photoinduced intermolecular charge transport in BHJ solar cell materials. *Journal of Materials Chemistry C*, **2015**, 3, 4810-4819	7.1	54
125	Near field plasmonic gradient effects on high vacuum tip-enhanced Raman spectroscopy. *Physical Chemistry Chemical Physics*, **2015**, 17, 783-94	3.6	36
124	A plasmon-driven selective surface catalytic reaction revealed by surface-enhanced Raman scattering in an electrochemical environment. *Scientific Reports*, **2015**, 5, 11920	4.9	41
123	Formation of Enhanced Uniform Chiral Fields in Symmetric Dimer Nanostructures. *Scientific Reports* , **2015**, 5, 17534	4.9	47
122	Three Dimensional Hybrids of Vertical Graphene-nanosheet Sandwiched by Ag-nanoparticles for Enhanced Surface Selectively Catalytic Reactions. *Scientific Reports*, **2015**, 5, 16019	4.9	57
121	Photoinduced Charge Transport in a BHJ Solar Cell Controlled by an External Electric Field. *Scientific Reports*, **2015**, 5, 13970	4.9	28
120	Effect of aqueous and ambient atmospheric environments on plasmon-driven selective reduction reactions. *Scientific Reports*, **2015**, 5, 10269	4.9	21
119	Plasmon-driven reaction controlled by the number of graphene layers and localized surface plasmon distribution during optical excitation. *Light: Science and Applications*, **2015**, 4, e342-e342	16.7	154
118	Plasmon-driven sequential chemical reactions in an aqueous environment. *Scientific Reports*, **2014**, 4, 5407	4.9	45
117	Plasmon-driven dimerization via S-S chemical bond in an aqueous environment. *Scientific Reports*, **2014**, 4, 7221	4.9	19
116	Plasmon-driven surface catalysis in hybridized plasmonic gap modes. *Scientific Reports*, **2014**, 4, 7087	4.9	47
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