

# Mengtao Sun

## List of Publications by Year in descending order

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299  
papers

16,586  
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15504

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g-index

304  
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304  
docs citations

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times ranked

17085  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based SERS for sensor and catalysis. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 1-38.	6.7	39
2	Molecular and plasmonic resonances on tip-enhanced Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120360.	3.9	3
3	In situ Plasmon-Enhanced CARS and TPEF for Gram staining identification of non-fluorescent bacteria. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120283.	3.9	27
4	Tip-enhanced two-photon-excited fluorescence of monolayer MoS <sub>2</sub> . <i>Applied Surface Science</i> , 2022, 576, 151835.	6.1	5
5	Phonon-assisted Interfacial Charge Transfer Excitons in Graphene/h-BN van der Waals Heterostructures. <i>Chinese Journal of Physics</i> , 2022, 76, 110-120.	3.9	2
6	Nanoscale engineering of ring-mounted nanostructure around AAO nanopores for highly sensitive and reliable SERS substrates. <i>Nanotechnology</i> , 2022, 33, 135501.	2.6	9
7	Two-Dimensional Self-Assembly of Au@Ag Core-Shell Nanocubes with Different Permutations for Ultrasensitive SERS Measurements. <i>ACS Omega</i> , 2022, 7, 3312-3323.	3.5	14
8	Optical non-reciprocity with multiple modes in the visible range based on a hybrid metallic nanowaveguide. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 195102.	2.8	0
9	Electronic structures and optical properties of monolayer borophenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 121014.	3.9	6
10	Unified treatment for photoluminescence and scattering of coupled metallic nanostructures: I. Two-body system. <i>New Journal of Physics</i> , 2022, 24, 033026.	2.9	8
11	Bilayer borophene synthesized on Ag(111) film: Physical mechanism and applications for optical sensor and thermoelectric devices. <i>Materials Today Physics</i> , 2022, 23, 100652.	6.0	15
12	Nonlinear Optical Microscopy and Plasmon Enhancement. <i>Nanomaterials</i> , 2022, 12, 1273.	4.1	5
13	Tip-enhanced Raman spectroscopy. <i>Reviews in Physics</i> , 2022, 8, 100067.	8.9	34
14	Strongly enhanced propagation and non-reciprocal properties of CdSe nanowire based on hybrid nanostructures at communication wavelength of 1550 nm. <i>Optics Communications</i> , 2022, 514, 128175.	2.1	1
15	Exploring Nonemissive Excited-State Intramolecular Proton Transfer by Plasmon-Enhanced Hyper-Raman Scattering and Two-Photon Excitation Fluorescence. <i>Journal of Physical Chemistry C</i> , 2022, 126, 487-492.	3.1	22
16	Nonlinear plexitons: excitons coupled with plasmons in two-photon absorption. <i>Nanoscale</i> , 2022, 14, 7269-7279.	5.6	27
17	Transition Metal Dichalcogenides (TMDCs) Heterostructures: Synthesis, Excitons and Photoelectric Properties. <i>Chemical Record</i> , 2022, 22, e202100313.	5.8	12
18	Polarization and incident angle-dependent plasmonic coupling of Au@Ag nanoalloys. <i>Chinese Journal of Physics</i> , 2022, 78, 132-140.	3.9	7

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19	Spectral investigation on single molecular optoelectronics of ladder phenylenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121283.	3.9	3
20	Unified treatment for photoluminescence and scattering of coupled metallic multi- $\alpha$ nanostructures. <i>Results in Physics</i> , 2022, , 105668.	4.1	0
21	Perspective on plexciton based on transition metal dichalcogenides. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	23
22	Transition metal dichalcogenides (TMDCs) heterostructures: Optoelectric properties. <i>Frontiers of Physics</i> , 2022, 17, .	5.0	25
23	Nonlinear optical microscopies: physical principle and applications. <i>Applied Spectroscopy Reviews</i> , 2021, 56, 52-66.	6.7	9
24	Electronic circular dichroism and Raman optical activity: Principle and applications. <i>Applied Spectroscopy Reviews</i> , 2021, 56, 553-587.	6.7	18
25	Chiral surface plasmon-enhanced chiral spectroscopy: principles and applications. <i>Nanoscale</i> , 2021, 13, 581-601.	5.6	43
26	Physical mechanism and electric-magnetic interaction in ECD and ROA: Visualization methods on chirality. <i>Chemical Physics Letters</i> , 2021, 763, 138206.	2.6	1
27	Two-dimensional WS <sub>2</sub> /MoS <sub>2</sub> heterostructures: properties and applications. <i>Nanoscale</i> , 2021, 13, 5594-5619.	5.6	73
28	High-performance SERS substrate based on perovskite quantum dot-graphene/nano-Au composites for ultrasensitive detection of rhodamine 6G and <i>p</i> -nitrophenol. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9011-9020.	5.5	18
29	Plexcitons, electric field gradient and electron-phonon coupling in tip-enhanced Raman spectroscopy (TERS). <i>Nanoscale</i> , 2021, 13, 10712-10725.	5.6	14
30	Plasmon and Plexciton Driven Interfacial Catalytic Reactions. <i>Chemical Record</i> , 2021, 21, 797-819.	5.8	49
31	Electromagnetic Field Gradient-Enhanced Raman Scattering in TERS Configurations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5684-5691.	3.1	10
32	Molecular chirality of Macrolide antibiotics. <i>Chemical Physics</i> , 2021, 545, 111120.	1.9	0
33	Pressure-dependent interfacial charge transfer excitons in WSe <sub>2</sub> -MoSe <sub>2</sub> heterostructures in near infrared region. <i>Results in Physics</i> , 2021, 24, 104110.	4.1	22
34	Graphene plasmon for optoelectronics. <i>Reviews in Physics</i> , 2021, 6, 100054.	8.9	54
35	Plexciton and electron-phonon interaction in tip-enhanced resonance Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1685.	2.5	5
36	Engineering plasmonic nanochain for optical sensor via regulating electric field. <i>Optik</i> , 2021, 240, 166827.	2.9	4

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37	Photoinduced charge transfer in two-photon absorption. <i>Results in Optics</i> , 2021, 4, 100099.	2.0	2
38	Plexciton in tip-enhanced resonance Stokes and anti-Stokes Raman spectroscopy and in propagating surface plasmon polaritons. <i>Optics Communications</i> , 2021, 493, 126990.	2.1	13
39	Physical Mechanisms on Plasmon-Enhanced Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21301-21309.	3.1	36
40	Structural Color Control of CoFeB-Coated Nanoporous Thin Films. <i>Coatings</i> , 2021, 11, 1123.	2.6	7
41	External electric field manipulating sequential and super-exchange charge transfer in donor-bridge-acceptor system in two-photon absorption. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114840.	2.7	14
42	Unified treatments for localized surface plasmon resonance and propagating surface plasmon polariton based on resonance modes in metal nanowire. <i>Optics Communications</i> , 2021, 499, 127277.	2.1	21
43	Aluminum plasmon-enhanced deep ultraviolet fluorescence resonance energy transfer in h-BN/graphene heterostructure. <i>Optics Communications</i> , 2021, 498, 127224.	2.1	11
44	Graphene Plasmon-Enhanced Polarization-Dependent Interfacial Charge Transfer Excitons in 2D Graphene-Black Phosphorus Heterostructures in NIR and MIR Regions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22370-22378.	3.1	14
45	Plasmonic alloy nanochains assembled via dielectrophoresis for ultrasensitive SERS. <i>Optics Express</i> , 2021, 29, 36857.	3.4	8
46	Physical mechanisms of photoinduced charge transfer in neutral and charged donor-acceptor systems. <i>RSC Advances</i> , 2021, 11, 38302-38306.	3.6	1
47	Carbon Dots: Synthesis, Properties and Applications. <i>Nanomaterials</i> , 2021, 11, 3419.	4.1	115
48	Flexible and transparent Au nanoparticle/graphene/Au nanoparticle sandwich substrate for surface-enhanced Raman scattering. <i>Materials Today Nano</i> , 2020, 9, 100067.	4.6	28
49	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.	3.1	38
50	Voltage-manipulating graphene-mediated surface-enhanced Raman scattering (G-SERS): principle and applications. <i>Applied Spectroscopy Reviews</i> , 2020, 55, 558-573.	6.7	9
51	Plexciton for surface enhanced Raman scattering and emission. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 476-482.	2.5	8
52	Photoninduced charge redistribution of graphene determined by edge structures in the infrared region. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117858.	3.9	8
53	Photo-physical properties of vinigrol revealed by two-photon absorption, electronic circular dichroism, Raman spectroscopy and Raman optical activity. <i>Chemical Physics Letters</i> , 2020, 755, 137798.	2.6	4
54	Optical physics on chiral brominated azapirones: Bromophilone A and B. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118780.	3.9	5

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55	Optical properties of kalihinol derivatives in TPA, ECD and ROA. Chemical Physics Letters, 2020, 755, 137796.	2.6	3
56	Graphitic carbon nitride-based 2D catalysts for green energy: Physical mechanism and applications. Materials Today Energy, 2020, 17, 100488.	4.7	14
57	Nanoplasmonic Nanorods/Nanowires from Single to Assembly: Syntheses, Physical Mechanisms and Applications. Chemical Record, 2020, 20, 1043-1073.	5.8	4
58	Electrochemical synthesis of tin plasmonic dendritic nanostructures with SEF capability through <i>in situ</i> replacement. RSC Advances, 2020, 10, 36042-36050.	3.6	5
59	Interfacial charge transfer exciton enhanced by plasmon in 2D in-plane lateral and van der Waals heterostructures. Applied Physics Letters, 2020, 117, .	3.3	85
60	Functionalized Gold Nanoparticles: Synthesis, Properties and Biomedical Applications. Chemical Record, 2020, 20, 1474-1504.	5.8	91
61	Photoinduced charge transfer in quasi-one-dimensional polymers in two-photon absorption. RSC Advances, 2020, 10, 33288-33298.	3.6	3
62	Mechanical properties of Fe-based bulk amorphous Fe <sub>41</sub> Co <sub>7</sub> Cr <sub>15</sub> Mo <sub>14</sub> C <sub>15</sub> B <sub>6</sub> Y <sub>2</sub> alloy rods. Chemical Physics Letters, 2020, 750, 137511.	2.6	10
63	Plasmonic Nanoparticle Film for Low-Power NIR-Enhanced Photocatalytic Reaction. ACS Applied Materials & Interfaces, 2020, 12, 16753-16761.	8.0	12
64	Synthesis of homogeneous carbon quantum dots by ultrafast dual-beam pulsed laser ablation for bioimaging. Materials Today Nano, 2020, 12, 100091.	4.6	66
65	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.	3.1	39
66	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. Materials Today Physics, 2020, 13, 100196.	6.0	42
67	Spectral analysis on CoOx films deposited by atomic layer deposition. Chemical Physics Letters, 2020, 742, 137159.	2.6	2
68	One- and Two-Photon Absorption: Physical Principle and Applications. Chemical Record, 2020, 20, 894-911.	5.8	7
69	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.	6.0	52
70	Nonlinear optical microscopies (NOMs) and plasmon-enhanced NOMs for biology and 2D materials. Nanophotonics, 2020, 9, 1341-1358.	6.0	6
71	Graphitic carbon nitride nanostructures: Catalysis. Applied Materials Today, 2019, 16, 388-424.	4.3	58
72	Visualizations of Electric and Magnetic Interactions in Electronic Circular Dichroism and Raman Optical Activity. Journal of Physical Chemistry A, 2019, 123, 8071-8081.	2.5	43

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73	Nanoscale Vertical Arrays of Gold Nanorods by Self-Assembly: Physical Mechanism and Application. <i>Nanoscale Research Letters</i> , 2019, 14, 118.	5.7	40
74	Tuning the SERS activity and plasmon-driven reduction of <i>p</i> -nitrothiophenol on a Ag@MoS <sub>2</sub> film. <i>Faraday Discussions</i> , 2019, 214, 297-307.	3.2	26
75	Properties and applications of new superlattice: twisted bilayer graphene. <i>Materials Today Physics</i> , 2019, 9, 100099.	6.0	62
76	Tunable electron transfer rate in a CdSe/ZnS-based complex with different anthraquinone chloride substitutes. <i>Scientific Reports</i> , 2019, 9, 7756.	3.3	5
77	Visualization of Photoinduced Charge Transfer and Electron-Hole Coherence in Two-Photon Absorption. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14132-14143.	3.1	81
78	Porous size dependent g-C <sub>3</sub> N <sub>4</sub> for efficient photocatalysts: Regulation synthesizes and physical mechanism. <i>Materials Today Energy</i> , 2019, 13, 11-21.	4.7	41
79	Tip-enhanced spectroscopy of 2D black phosphorus. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1058-1064.	2.5	13
80	Biological nascent evolution of snail bone and collagen revealed by nonlinear optical microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900119.	2.3	12
81	Optoelectronic properties and applications of graphene-based hybrid nanomaterials and van der Waals heterostructures. <i>Applied Materials Today</i> , 2019, 16, 1-20.	4.3	82
82	Transformation from Quantum to Classical Mode: the Size Effect of Plasmon in 2D Atomic Cluster System. <i>Scientific Reports</i> , 2019, 9, 6641.	3.3	1
83	Optical-electrical synergy on electricity manipulating plasmon-driven photoelectrical catalysis. <i>Applied Materials Today</i> , 2019, 15, 305-314.	4.3	10
84	Exciton-Plasmon Interactions in Noble Metal-Semiconductor Oxide Hybrid Nanostructures. , 2019, , 157-178.		0
85	Multiple surface plasmon resonances enhanced nonlinear optical microscopy. <i>Nanophotonics</i> , 2019, 8, 487-493.	6.0	41
86	Two-dimensional black phosphorus: physical properties and applications. <i>Materials Today Physics</i> , 2019, 8, 92-111.	6.0	68
87	Physical mechanism on edge-dependent electrons transfer in graphene in mid infrared region. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 136-145.	3.9	7
88	Plasmon-driven molecular photodissociations. <i>Applied Materials Today</i> , 2019, 15, 212-235.	4.3	13
89	Plasmon-Enhanced Fluorescence Resonance Energy Transfer. <i>Chemical Record</i> , 2019, 19, 818-842.	5.8	41
90	The Thermal, Electrical and Thermoelectric Properties of Graphene Nanomaterials. <i>Nanomaterials</i> , 2019, 9, 218.	4.1	52

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91	Nonlinear optical characterization of porous carbon materials by CARS, SHG and TPEF. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 58-66.	3.9	11
92	Plasmonic nanoparticle-film-assisted photoelectrochemical catalysis across the entire visible-NIR region. <i>Nanoscale</i> , 2019, 11, 23058-23064.	5.6	10
93	Plasmon-exciton coupling by hybrids between graphene and gold nanorods vertical array for sensor. <i>Applied Materials Today</i> , 2019, 14, 166-174.	4.3	69
94	Deep ultraviolet tip-enhanced fluorescence. <i>Nanotechnology</i> , 2019, 30, 035202.	2.6	2
95	The nature of photoinduced intermolecular charge transfer in fluorescence resonance energy transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 209, 228-233.	3.9	19
96	Physical principle and advances in plasmon-enhanced upconversion luminescence. <i>Applied Materials Today</i> , 2019, 15, 43-57.	4.3	40
97	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.	3.9	26
98	Study of Surface Plasmon Assisted Reactions to Understand the Light-Induced Decarboxylation of N719 Sensitizer. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 23-28.	2.0	6
99	The Remote Light Emission Modulated by Local Surface Plasmon Resonance for the CdSe NW@Au NP Hybrid Structure. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801418.	3.7	4
100	Plasmon-enhanced upconversion photoluminescence: Mechanism and application. <i>Reviews in Physics</i> , 2019, 4, 100026.	8.9	105
101	Ultrafast carrier dynamics in all-inorganic CsPbBr <sub>3</sub> perovskite across the pressure-induced phase transition. <i>Optics Express</i> , 2019, 27, A995.	3.4	29
102	Surface catalytic reaction driven by plasmonic waveguide. <i>Applied Materials Today</i> , 2018, 11, 50-56.	4.3	7
103	Electro-optical tuning of plasmon-driven double reduction interface catalysis. <i>Applied Materials Today</i> , 2018, 11, 189-192.	4.3	17
104	Physical mechanism of photoinduced intermolecular charge transfer enhanced by fluorescence resonance energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13558-13565.	2.8	37
105	Photocatalytic activity of silver oxide capped Ag nanoparticles constructed by air plasma irradiation. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	12
106	Unraveling the Raman Enhancement Mechanism on 1Tâ€²â€²Phase ReS <sub>2</sub> Nanosheets. <i>Small</i> , 2018, 14, e1704079.	10.0	87
107	Electrically enhanced hot hole driven oxidation catalysis at the interface of a plasmonâ€²exciton hybrid. <i>Nanoscale</i> , 2018, 10, 5482-5488.	5.6	110
108	Propagating surface plasmon polaritons for remote excitation surface-enhanced Raman scattering spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 771-782.	6.7	12

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109	Charge-transfer channel in quantum dot-graphene hybrid materials. <i>Nanotechnology</i> , 2018, 29, 145202.	2.6	8
110	Femtosecond dynamics of monolayer MoS <sub>2</sub> -Ag nanoparticles hybrid probed at 532 nm. <i>Chemical Physics Letters</i> , 2018, 692, 208-213.	2.6	9
111	Combustion kinetics and structural features of bituminous coal before and after modification process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 983-992.	3.6	12
112	Self-assembly of Au@Ag core-shell nanocuboids into staircase superstructures by droplet evaporation. <i>Nanoscale</i> , 2018, 10, 142-149.	5.6	44
113	Plasmon-Exciton Coupling Interaction for Surface Catalytic Reactions. <i>Chemical Record</i> , 2018, 18, 481-490.	5.8	44
114	Exciton-plasmon coupling interactions: from principle to applications. <i>Nanophotonics</i> , 2018, 7, 145-167.	6.0	164
115	The nature of plasmon-exciton codriven surface catalytic reaction. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 383-387.	2.5	13
116	Plasmonic electrons enhanced resonance Raman scattering (EERRS) and electrons enhanced fluorescence (EEF) spectra. <i>Applied Materials Today</i> , 2018, 13, 298-302.	4.3	22
117	Influence of the external field on the excitation properties of plasmon in linear atomic chain. <i>Scientific Reports</i> , 2018, 8, 12563.	3.3	2
118	Site-selected N vacancy of g-C <sub>3</sub> N <sub>4</sub> for photocatalysis and physical mechanism. <i>Applied Materials Today</i> , 2018, 13, 329-338.	4.3	66
119	Ag Nanoparticle-Induced Oxidative Dimerization of Thiophenols: Efficiency and Mechanism. <i>Langmuir</i> , 2018, 34, 11347-11353.	3.5	9
120	Magnetic field modulated SERS enhancement of CoPt hollow nanoparticles with sizes below 10 nm. <i>Nanoscale</i> , 2018, 10, 12650-12656.	5.6	14
121	Nanocrystallization and magnetostriction coefficient of Fe <sub>52</sub> Co <sub>34</sub> Hf <sub>7</sub> B <sub>6</sub> Cu <sub>1</sub> amorphous alloy treated by medium-frequency magnetic pulse. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 468, 181-184.	2.3	7
122	Exciton-plasmon hybrids for surface catalysis detected by SERS. <i>Nanotechnology</i> , 2018, 29, 372001.	2.6	17
123	Physical Insight on Mechanism of Photoinduced Charge Transfer in Multipolar Photoactive Molecules. <i>Scientific Reports</i> , 2018, 8, 10089.	3.3	14
124	Photoinduced charge transfer by one and two-photon absorptions: physical mechanisms and applications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19720-19743.	2.8	27
125	Optical characterizations of two-dimensional materials using nonlinear optical microscopies of CARS, TPEF, and SHG. <i>Nanophotonics</i> , 2018, 7, 873-881.	6.0	35
126	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.	6.0	79



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127	Advances in nonlinear optical microscopy for biophotonics. <i>Journal of Nanophotonics</i> , 2018, 12, 1.	1.0	24
128	Plasmon-Driven Diazo Coupling Reactions of p-Nitroaniline via $\hat{\alpha}^{\sim}\text{NH}_2$ or $\hat{\alpha}^{\sim}\text{NO}_2$ in Atmosphere Environment. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5225-5231.	3.1	37
129	Screening and design of high-performance indoline-based dyes for DSSCs. <i>RSC Advances</i> , 2017, 7, 20520-20536.	3.6	44
130	Non-symmetric hybrids of noble metal-semiconductor: Interplay of nanoparticles and nanostructures in formation dynamics and plasmonic applications. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 157-168.	4.4	19
131	Morphological effects on the selectivity of intramolecular versus intermolecular catalytic reaction on Au nanoparticles. <i>Nanoscale</i> , 2017, 9, 7727-7733.	5.6	17
132	Ultrafast carrier transfer evidencing graphene electromagnetically enhanced ultrasensitive SERS in graphene/Ag-nanoparticles hybrid. <i>Carbon</i> , 2017, 122, 98-105.	10.3	40
133	Plasmon-exciton coupling of monolayer MoS <sub>2</sub> -Ag nanoparticles hybrids for surface catalytic reaction. <i>Materials Today Energy</i> , 2017, 5, 72-78.	4.7	169
134	Visualization of weak interactions between quantum dot and graphene in hybrid materials. <i>Scientific Reports</i> , 2017, 7, 417.	3.3	11
135	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.	2.8	26
136	D $\hat{\alpha}$ “A $\hat{\alpha}$ ”Ī $\hat{\alpha}$ “A System: Light Harvesting, Charge Transfer, and Molecular Designing. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12546-12561.	3.1	100
137	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.	3.3	40
138	Surface-enhanced Raman scattering of pyrazine on Au<sub>5</sub>Al<sub>5</sub> bimetallic nanoclusters. <i>RSC Advances</i> , 2017, 7, 12170-12178.	3.6	8
139	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. <i>RSC Advances</i> , 2017, 7, 16801-16822.	3.6	500
140	Atomic $\hat{\alpha}$ Level $\hat{\alpha}$ Designed Catalytically Active Palladium Atoms on Ultrathin Gold Nanowires. <i>Advanced Materials</i> , 2017, 29, 1604571.	21.0	52
141	Molecular Tilting Alignment on Ag@C Nanocubes Monitored by Temperature-Dependent Surface Enhanced Raman Scattering. <i>Scientific Reports</i> , 2017, 7, 12865.	3.3	8
142	Magnetics and spintronics on two-dimensional composite materials of graphene/hexagonal boron nitride. <i>Materials Today Physics</i> , 2017, 3, 93-117.	6.0	56
143	Ag nanoparticles-TiO <sub>2</sub> film hybrid for plasmon-exciton co-driven surface catalytic reactions. <i>Applied Materials Today</i> , 2017, 9, 251-258.	4.3	65
144	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.	6.0	305

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145	Plasmonâ€‘exciton coâ€‘driven surface catalytic reaction in electrochemical Câ€‘SERS. Journal of Raman Spectroscopy, 2017, 48, 1144-1147.	2.5	26
146	Fluorescence Resonance Energy Transfer of Monomer via Photoisomerization. ChemistrySelect, 2017, 2, 6446-6451.	1.5	2
147	Unified Treatment for Plasmonâ€‘Exciton Co-driven Reduction and Oxidation Reactions. Langmuir, 2017, 33, 12102-12107.	3.5	84
148	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.	3.3	3
149	Electrooptical Synergy on Plasmonâ€‘Excitonâ€‘Codriven Surface Reduction Reactions. Advanced Materials Interfaces, 2017, 4, 1700869.	3.7	91
150	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. Nanophotonics, 2017, 6, 943-976.	6.0	78
151	Physical mechanism on exciton-plasmon coupling revealed by femtosecond pump-probe transient absorption spectroscopy. Materials Today Physics, 2017, 3, 33-40.	6.0	78
152	Tip-enhanced photoluminescence spectroscopy of monolayer MoS <sub>2</sub> . Photonics Research, 2017, 5, 745.	7.0	33
153	Pt-Based Nanostructures for Observing Genuine SERS Spectra of p-Aminothiophenol (PATP) Molecules. Applied Sciences (Switzerland), 2017, 7, 953.	2.5	6
154	High-Vacuum Tip-Enhanced Raman Spectroscopy. , 2017, , 129-140.		0
155	Plasmonâ€‘driven catalysis in aqueous solutions probed by SERS spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 877-883.	2.5	39
156	Farâ€‘Field Spectroscopy and Nearâ€‘Field Optical Imaging of Coupled Plasmonâ€‘Phonon Polaritons in 2D van der Waals Heterostructures. Advanced Materials, 2016, 28, 2931-2938.	21.0	77
157	High vacuum tip-enhanced Raman spectroscope based on a scanning tunneling microscope. Review of Scientific Instruments, 2016, 87, 033104.	1.3	86
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