

Jingang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,127
citations

361413

20
h-index

233421

45
g-index

60
all docs

60
docs citations

60
times ranked

2670
citing authors

#	ARTICLE	IF	CITATIONS
1	Impurity Controlled near Infrared Surface Plasmonic in AlN. <i>Nanomaterials</i> , 2022, 12, 459.	4.1	1
2	Excitation induced asymmetric fluorescence emission in 2D-WS ₂ quantum dots. <i>Materials Advances</i> , 2022, 3, 1772-1779.	5.4	2
3	Angle-resolved one and Two-Photon absorption spectrum in twisted bilayer graphene quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 271, 120894.	3.9	6
4	Linear and Nonlinear Photon-Induced Cross Bridge/Space Charge Transfer in STC Molecular Crystals. <i>Nanomaterials</i> , 2022, 12, 535.	4.1	7
5	Study of Intermolecular Interaction between Small Molecules and Carbon Nanobelt: Electrostatic, Exchange, Dispersive and Inductive Forces. <i>Catalysts</i> , 2022, 12, 561.	3.5	4
6	[6,6]CNB with controllable external electric field deformation: a theoretical study of the structure-function relationship. <i>Materials Research Express</i> , 2022, 9, 064001.	1.6	3
7	Selective adsorption of Pb ²⁺ and Cu ²⁺ on amino-modified attapulgite: Kinetic, thermal dynamic and DFT studies. <i>Journal of Hazardous Materials</i> , 2021, 404, 124140.	12.4	112
8	The magical photoelectric and optoelectronic properties of graphene nanoribbons and their applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13600-13616.	5.5	27
9	Physical mechanism of layer-dependent strong and weak coupling with electromagnetic wave in 2H-MoS ₂ . <i>Materials Research Express</i> , 2021, 8, 025012.	1.6	0
10	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2000744.	5.8	46
11	Graphene plasmon for optoelectronics. <i>Reviews in Physics</i> , 2021, 6, 100054.	8.9	54
12	Excited States Symmetry Breaking and In-Plane Polarization Cause Chiral Reversal in Diastereomers. <i>Molecules</i> , 2021, 26, 4680.	3.8	1
13	Electric Field Induced Twisted Bilayer Graphene Infrared Plasmon Spectrum. <i>Nanomaterials</i> , 2021, 11, 2433.	4.1	10
14	Novel electrical properties and applications in kaleidoscopic graphene nanoribbons. <i>RSC Advances</i> , 2021, 11, 33675-33691.	3.6	13
15	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021, 6, 3841-3881.	7.8	45
16	Intra-Molecular Electrical Field Regulated Nonlinear Catalyst Charge Transfer in the Organic Conjugated Molecular System. <i>Catalysts</i> , 2021, 11, 1375.	3.5	0
17	Synthesis and photophysical properties of multilayer emitting p- π -p fluorophores. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117680.	3.9	4
18	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

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19	Photoinduced Charge Transfer in Push/Pull Systems of Two-Photon Absorption. ACS Omega, 2020, 5, 17275-17286.	3.5	5
20	Visible Light Electromagnetic Interaction of PM567 Chiral Dye for Asymmetric Photocatalysis, a First-Principles Investigation. Catalysts, 2020, 10, 882.	3.5	1
21	Mechanical properties of Fe-based bulk amorphous Fe ₄₁ Co ₇ Cr ₁₅ Mo ₁₄ C ₁₅ B ₆ Y ₂ alloy rods. Chemical Physics Letters, 2020, 750, 137511.	2.6	10
22	Physical mechanism of the photoinduced charge transfer in multibranched compounds during one- and two-photon absorption. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 231, 118144.	3.9	3
23	The Dependence of Implicit Solvent Model Parameters and Electronic Absorption Spectra and Photoinduced Charge Transfer. Scientific Reports, 2020, 10, 3713.	3.3	11
24	Physical mechanism of concentration-dependent fluorescence resonance energy transfer. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 231, 118143.	3.9	6
25	Solution-phase vertical growth of aligned NiCo ₂ O ₄ nanosheet arrays on Au nanosheets with weakened oxygen-hydrogen bonds for photocatalytic oxygen evolution. Nanoscale, 2020, 12, 6195-6203.	5.6	23
26	Physical mechanism of special type photoinduced charge transfer in one-photon and two-photon absorption of Mobius rings. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 236, 118264.	3.9	7
27	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
28	The physical mechanism of electron excitation spectrum for photo redox device controlled by gate voltage, a first-principles study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 223, 117225.	3.9	0
29	Visualization of Photoinduced Charge Transfer and Electron-Hole Coherence in Two-Photon Absorption. Journal of Physical Chemistry C, 2019, 123, 14132-14143.	3.1	81
30	Porous size dependent g-C ₃ N ₄ for efficient photocatalysts: Regulation synthesizes and physical mechanism. Materials Today Energy, 2019, 13, 11-21.	4.7	41
31	Optoelectronic properties and applications of graphene-based hybrid nanomaterials and van der Waals heterostructures. Applied Materials Today, 2019, 16, 1-20.	4.3	82
32	Optical-electrical synergy on electricity manipulating plasmon-driven photoelectrical catalysis. Applied Materials Today, 2019, 15, 305-314.	4.3	10
33	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.	3.9	7
34	Photocatalytic Reversible Reactions Driven by Localized Surface Plasmon Resonance. Catalysts, 2019, 9, 193.	3.5	9
35	Plasmon-driven molecular photodissociations. Applied Materials Today, 2019, 15, 212-235.	4.3	13
36	Plasmon-Enhanced Fluorescence Resonance Energy Transfer. Chemical Record, 2019, 19, 818-842.	5.8	41

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37	Plasmonic Photocatalysts Monitored by Tip-Enhanced Raman Spectroscopy. <i>Catalysts</i> , 2019, 9, 109.	3.5	6
38	The Thermal, Electrical and Thermoelectric Properties of Graphene Nanomaterials. <i>Nanomaterials</i> , 2019, 9, 218.	4.1	52
39	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
40	Charge-transfer channel in quantum dot-graphene hybrid materials. <i>Nanotechnology</i> , 2018, 29, 145202.	2.6	8
41	Dependence of UV-Visible Absorption Characteristics on the Migration Distance and the Hyperconjugation Effect of a Methine Chain. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7831-7837.	3.1	16
42	Principle and Application of Tip-enhanced Raman Scattering. <i>Plasmonics</i> , 2018, 13, 1343-1358.	3.4	5
43	Plasmon-Exciton Coupling Interaction for Surface Catalytic Reactions. <i>Chemical Record</i> , 2018, 18, 481-490.	5.8	44
44	Nanoplasmon-Semiconductor Hybrid for Interface Catalysis. <i>Catalysts</i> , 2018, 8, 429.	3.5	2
45	Au Tip-Enhanced Raman Spectroscopy for Catalysis. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2026.	2.5	7
46	Nanocrystallization and magnetostriction coefficient of Fe ₅₂ Co ₃₄ Hf ₇ B ₆ Cu ₁ amorphous alloy treated by medium-frequency magnetic pulse. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 468, 181-184.	2.3	7
47	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
48	Coupling effect on charge-transfer mechanism of surface-enhanced resonance Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 560-569.	2.5	15
49	Recent advances in surface plasmon-driven catalytic reactions. <i>RSC Advances</i> , 2017, 7, 31189-31203.	3.6	58
50	Visualization of weak interactions between quantum dot and graphene in hybrid materials. <i>Scientific Reports</i> , 2017, 7, 417.	3.3	11
51	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. <i>RSC Advances</i> , 2017, 7, 16801-16822.	3.6	500
52	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
53	Raman optical activity (ROA) and surface-enhanced ROA (SE-ROA) of (+)-(R)-methyloxirane adsorbed on a Ag ₂₀ cluster. <i>RSC Advances</i> , 2017, 7, 34376-34381.	3.6	7
54	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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55	Optical, photonic and optoelectronic properties of graphene, h-BN and their hybrid materials. Nanophotonics, 2017, 6, 943-976.	6.0	78
56	Optical advantages of graphene on the boron nitride in visible and SW-NIR regions. RSC Advances, 2016, 6, 111345-111349.	3.6	17
57	Theoretical Investigations of Optical Origins of Fluorescent Graphene Quantum Dots. Scientific Reports, 2016, 6, 24850.	3.3	64
58	pH-Dependent plasmonic catalysis of 4-nitrobenzenethiol in aqueous environment. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 542-545.	3.9	6
59	Recent Progresses in Integrated Nanoplasmonic Devices Based on Propagating Surface Plasmon Polaritons. Plasmonics, 2015, 10, 1841-1852.	3.4	20