Hengwei Qiu

List of Publications by Year
in descending order

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43 papers	1,652 citations	257450 24 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	2374 citing authors

#	Article	IF	Citations
1	Wearable piezoresistive pressure sensors based on 3D graphene. Chemical Engineering Journal, 2021, 406, 126777.	12.7	191
2	Graphene/Cu Nanoparticle Hybrids Fabricated by Chemical Vapor Deposition As Surface-Enhanced Raman Scattering Substrate for Label-Free Detection of Adenosine. ACS Applied Materials & Interfaces, 2015, 7, 10977-10987.	8.0	157
3	Engineering the Exciton Dissociation in Quantumâ€Confined 2D CsPbBr₃ Nanosheet Films. Advanced Functional Materials, 2018, 28, 1705908.	14.9	98
4	Wearable rGO-Ag NW@cotton fiber piezoresistive sensor based on the fast charge transport channel provided by Ag nanowire. Nano Energy, 2018, 50, 528-535.	16.0	90
5	Preparation of all-inorganic perovskite quantum dots-polymer composite for white LEDs application. Journal of Alloys and Compounds, 2018, 748, 537-545.	5.5	88
6	Reliable molecular trace-detection based on flexible SERS substrate of graphene/Ag-nanoflowers/PMMA. Sensors and Actuators B: Chemical, 2017, 249, 439-450.	7.8	83
7	Multi-junction joints network self-assembled with converging ZnO nanowires as multi-barrier gas sensor. Sensors and Actuators B: Chemical, 2013, 177, 1027-1034.	7.8	72
8	Direct optical patterning of perovskite nanocrystals with ligand cross-linkers. Science Advances, 2022, 8, eabm8433.	10.3	54
9	Effect of Graphene-EC on Ag NW-Based Transparent Film Heaters: Optimizing the Stability and Heat Dispersion of Films. ACS Applied Materials & Interfaces, 2018, 10, 1077-1083.	8.0	47
10	CB Nanoparticles Optimized 3D Wearable Graphene Multifunctional Piezoresistive Sensor Framed by Loofah Sponge. ACS Applied Materials & Interfaces, 2020, 12, 36540-36547.	8.0	47
11	A comparison study between ZnO nanorods coated with graphene oxide and reduced graphene oxide. Journal of Alloys and Compounds, 2014, 582, 29-32.	5.5	44
12	Highly stable Na: CsPb(Br,I)₃@Al₂O₃ nanocomposites prepared by a pre-protection strategy. Nanoscale, 2020, 12, 6403-6410.	5.6	44
13	Hierarchical MoS2-microspheres decorated with 3D AuNPs arrays for high-efficiency SERS sensing. Sensors and Actuators B: Chemical, 2018, 255, 1407-1414.	7.8	40
14	Enhanced red emission from Eu 3+ â€“Bi 3+ co-doped Ca 2 YSbO 6 phosphors for white light-emitting diode. Journal of Alloys and Compounds, 2016, 658, 453-458.	5.5	36
15	Synthesis of Zn-doped TiO2 nano-particles using metal Ti and Zn as raw materials and application in quantum dot sensitized solar cells. Journal of Alloys and Compounds, 2019, 791, 371-379.	5.5	34
16	In situ hydrothermal growth of CdSe(S) nanocrystals on mesoporous TiO2 films for quantum dot-sensitized solar cells. Electrochimica Acta, 2012, 81, 260-267.	5.2	31
17	Dielectrophoretic-Assembled Single and Parallel-Aligned Ag Nanowireâ€“ZnO-Branched Nanorod Heteronanowire Ultraviolet Photodetectors. ACS Applied Materials & Interfaces, 2017, 9, 22837-22845.	8.0	31
18	Wrinkled 2H-phase MoS2 sheet decorated with graphene-microflowers for ultrasensitive molecular sensing by plasmon-free SERS enhancement. Sensors and Actuators B: Chemical, 2020, 320, 128445.	7.8	31

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19	Arrays of ZnO/AZO (Al-doped ZnO) nanocables: A higher open circuit voltage and remarkable improvement of efficiency for CdS-sensitized solar cells. Journal of Colloid and Interface Science, 2014, 418, 277-282.	9.4	30
20	Fabrication of micro/nano-composite porous TiO2 electrodes for quantum dot-sensitized solar cells. Journal of Power Sources, 2014, 253, 17-26.	7.8	30
21	Trioctylphosphine-Assisted Pre-protection Low-Temperature Solvothermal Synthesis of Highly Stable CsPbBr₃/TiO₂ Nanocomposites. Journal of Physical Chemistry Letters, 2021, 12, 3786-3794.	4.6	30
22	Regulation of radicals from electrochemical exfoliation of a double-graphite electrode to fabricate high-quality graphene. Journal of Materials Chemistry C, 2018, 6, 6257-6263.	5.5	29
23	Large-area MoS₂ thin layers directly synthesized on Pyramid-Si substrate for surface-enhanced Raman scattering. RSC Advances, 2015, 5, 83899-83905.	3.6	28
24	Pressure-Driven Transformation of CsPbBrI₂ Nanoparticles into Stable Nanosheets in Solution through Self-Assembly. Journal of Physical Chemistry Letters, 2020, 11, 9862-9868.	4.6	28
25	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. Angewandte Chemie - International Edition, 2022, 61, .	13.8	24
26	Two-step synthesis of hierarchical Ag/Cu2O/ITO substrate for ultrasensitive and recyclable surface-enhanced Raman spectroscopy applications. Applied Surface Science, 2019, 489, 1002-1009.	6.1	23
27	Photoluminescence investigation about zinc oxide with graphene oxide & reduced graphene oxide buffer layers. Journal of Colloid and Interface Science, 2014, 416, 289-293.	9.4	22
28	Reduced graphene oxide supporting Ag meso-flowers and phenyl-modified graphitic carbon nitride as self-cleaning flexible SERS membrane for molecular trace-detection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 9-19.	4.7	22
29	Surfaceâ€Enhanced Raman Scattering Based on Controllableâ€Layer Graphene Shells Directly Synthesized on Cu Nanoparticles for Molecular Detection. ChemPhysChem, 2015, 16, 2953-2960.	2.1	21
30	Nanowire-assisted self-assembly of one-dimensional nanocrystal superlattice chains. Journal of Materials Chemistry C, 2019, 7, 8471-8476.	5.5	21
31	Regulation of radicals from electrochemical exfoliation for production of graphene and its electrochemical properties. Electrochimica Acta, 2017, 258, 1484-1492.	5.2	20
32	Evanescent Wave Absorption Sensor Based Tapered Plastic Optical Fiber Coated with Monolayer Graphene for Ethanol Molecules Detection. Chinese Journal of Chemistry, 2016, 34, 1039-1047.	4.9	16
33	Self-cleaning SERS membrane for reusable and ultrasensitive molecular detection via integrating graphiticâ€carbon-nitride nanosheets and Ag nanospheres into hierarchical graphene layers that covered with graphiticâ€carbon-nitride quantum-dots. Applied Surface Science, 2019, 489, 1010-1018.	6.1	14
34	Strong violet emission from ultra-stable strontium-doped CsPbCl₃ superlattices. Nanoscale, 2022, 14, 2359-2366.	5.6	14
35	Reversible transformation between CsPbBr₃ nanowires and nanoparticles. Chemical Communications, 2019, 55, 12809-12812.	4.1	13
36	Application of patterned growth of aligned zinc oxide nanoarrays by mirocontact printing in quantum dots-sensitized solar cells. Journal of Power Sources, 2015, 280, 555-564.	7.8	12

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37	A new route for the synthesis of a Ag nanoporeâ€“inlayâ€“nanogap structure: integrated Ag-core@graphene-shell@Ag-jacket nanoparticles for high-efficiency SERS detection. Chemical Communications, 2017, 53, 8691-8694.	4.1	11
38	Stable CsPbX₃ (Br/Cl) Perovskite Nanocrystal Layer Passivated with Al-Doped CdSe for Blue Light-Emitting Diodes. ACS Applied Nano Materials, 2022, 5, 908-916.	5.0	10
39	In Situ Synthesis of UltraStable TiO₂ Coating Rb⁺-Doped Red Emitting CsPbBrI₂ Perovskite Quantum Dots. Journal of Physical Chemistry C, 2022, 126, 1542-1551.	3.1	7
40	A versatile approach for shape-controlled synthesis of ultrathin perovskite nanostructures. Dalton Transactions, 2021, 50, 3308-3314.	3.3	5
41	Stable near white light emission in CsPbCl₃ perovskite quantum dots by incorporating Al³⁺/Mn²⁺ ions. Nano Express, 2020, 1, 030033.	2.4	3
42	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. Angewandte Chemie, 2022, 134, .	2.0	1
43	One-pot synthesis of hierarchical Ag mesoparticles with tunable morphology for ultrasensitive surface-enhanced Raman scattering activity. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 032601.	1.2	0