

Kai Braun

List of Publications by Year in descending order

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40
papers

772
citations

623734

14
h-index

526287

27
g-index

40
all docs

40
docs citations

40
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Resolution Spectroscopic Mapping of the Chemical Contrast from Nanometer Domains in P3HT:PCBM Organic Blend Films for Solar-Cell Applications. <i>Advanced Functional Materials</i> , 2010, 20, 492-499.	14.9	96
2	Tip-enhanced Raman spectroscopy – an interlaboratory reproducibility and comparison study. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 22-31.	2.5	94
3	Parabolic mirror-assisted tip-enhanced spectroscopic imaging for non-transparent materials. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1371-1376.	2.5	76
4	Three-dimensional optical antennas: Nanocones in an apertureless scanning near-field microscope. <i>Applied Physics Letters</i> , 2008, 93, 111114.	3.3	53
5	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. <i>Nature Communications</i> , 2020, 11, 4442.	12.8	44
6	Near-Unity Polarization of Valley-Dependent Second-Harmonic Generation in Stacked TMDC Layers and Heterostructures at Room Temperature. <i>Advanced Materials</i> , 2020, 32, e1908061.	21.0	36
7	Enhancement of Radiative Plasmon Decay by Hot Electron Tunneling. <i>ACS Nano</i> , 2015, 9, 8176-8183.	14.6	34
8	Structural order enhances charge carrier transport in self-assembled Au-nanoclusters. <i>Nature Communications</i> , 2020, 11, 6188.	12.8	32
9	Nonlinear optical imaging of single plasmonic nanoparticles with 30 nm resolution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21288-21293.	2.8	30
10	Au Nanotip as Luminescent Near-Field Probe. <i>Nano Letters</i> , 2013, 13, 3566-3570.	9.1	21
11	Revealing Excitonic and Electron-Hole Plasma States in Stimulated Emission of Single CsPbBr_3 Nanowires at Room Temperature. <i>Physical Review Applied</i> , 2020, 13, .	3.8	19
12	Nanocones on transparent substrates for investigations in scanning probe microscopes. <i>Microelectronic Engineering</i> , 2009, 86, 1219-1221.	2.4	18
13	Plasmonic oligomers in cylindrical vector light beams. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 57-65.	2.8	16
14	Light-Controlled Near-Field Energy Transfer in Plasmonic Metasurface Coupled MoS ₂ Monolayer. <i>Small</i> , 2020, 16, 2003539.	10.0	16
15	Active optical antennas driven by inelastic electron tunneling. <i>Nanophotonics</i> , 2018, 7, 1503-1516.	6.0	15
16	Spatially resolved fluorescence of caesium lead halide perovskite supercrystals reveals quasi-atomic behavior of nanocrystals. <i>Nature Communications</i> , 2022, 13, 892.	12.8	15
17	Superluminescence from an optically pumped molecular tunneling junction by injection of plasmon induced hot electrons. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1100-1106.	2.8	14
18	Probing Bias-Induced Electron Density Shifts in Metal-Molecule Interfaces via Tip-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2021, 143, 1816-1821.	13.7	13

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19	Plasmon resonance modulated photoluminescence and Raman spectroscopy of diindenoperylene organic semiconductor thin film. <i>Journal of Luminescence</i> , 2011, 131, 502-505.	3.1	10
20	STM tip-enhanced Raman spectroscopy and the investigation of doped graphene. <i>Vibrational Spectroscopy</i> , 2017, 91, 128-135.	2.2	10
21	Sensitive Interferometric Plasmon Ruler Based on a Single Nanodimer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6486-6493.	3.1	10
22	A flexible platform for controlled optical and electrical effects in tailored plasmonic break junctions. <i>Nanophotonics</i> , 2020, 9, 1391-1400.	6.0	10
23	Opportunities and challenges for electrochemistry in studying the electronic structure of nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8992-9001.	2.8	9
24	Sub-nanosecond Intrinsic Response Time of PbS Nanocrystal IR-Photodetectors. <i>Nano Letters</i> , 2022, 22, 2809-2816.	9.1	9
25	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 11733-11737.	2.0	7
26	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11559-11563.	13.8	7
27	Fast, Infrared-Active Optical Transistors Based on Dye-Sensitized CdSe Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48271-48280.	8.0	7
28	Direct phase mapping of the light scattered by single plasmonic nanoparticles. <i>Nanoscale</i> , 2020, 12, 1083-1090.	5.6	7
29	Aligned Stacking of Nanopatterned 2D Materials for High-Resolution 3D Device Fabrication. <i>ACS Nano</i> , 2022, 16, 1836-1846.	14.6	6
30	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
31	Room Temperature Fluorescence Blinking in MoS ₂ Atomic Layers by Single Photon Energy Transfer. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	5
32	Simultaneous positive and negative optical patterning with dye-sensitized CdSe quantum dots. <i>Journal of Chemical Physics</i> , 2019, 151, 141102.	3.0	4
33	Nanoscale plasmonic phase sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3405-3411.	3.7	4
34	Periodic Fluorescence Variations of CdSe Quantum Dots Coupled to Aryleneethynylenes with Aggregation-Induced Emission. <i>ACS Nano</i> , 2021, 15, 480-488.	14.6	4
35	Atom-by-atom chemical identification from scanning transmission electron microscopy images in presence of noise and residual aberrations. <i>Ultramicroscopy</i> , 2021, 227, 113292.	1.9	4
36	Two-photon luminescence contrast by tip-sample coupling in femtosecond near-field optical microscopy. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Picosecond electrical response in graphene/MoTe ₂ heterojunction with high responsivity in the near infrared region. <i>Fundamental Research</i> , 2022, 2, 405-411.	3.3	3
38	Arrays of Well-Defined Size-Tunable Metallic Nano-Cones for Plasmonic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1055, 4.	0.1	2
39	Chemical Imaging of Single Anisotropic Polystyrene/Poly (Methacrylate) Microspheres with Complex Hierarchical Architecture. <i>Polymers</i> , 2021, 13, 1438.	4.5	2
40	Polarized photoluminescence spectroscopy in WS ₂ , WSe ₂ atomic layers and heterostructures by cylindrical vector beams*. <i>Chinese Physics B</i> , 2021, 30, 087802.	1.4	1