

# Kai Braun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8987940/publications.pdf>

Version: 2024-02-01

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	Picosecond electrical response in graphene/MoTe <sub>2</sub> heterojunction with high responsivity in the near infrared region. <i>Fundamental Research</i> , 2022, 2, 405-411.	3.3	3
2	Aligned Stacking of Nanopatterned 2D Materials for High-Resolution 3D Device Fabrication. <i>ACS Nano</i> , 2022, 16, 1836-1846.	14.6	6
3	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
4	Sub-nanosecond Intrinsic Response Time of PbS Nanocrystal IR-Photodetectors. <i>Nano Letters</i> , 2022, 22, 2809-2816.	9.1	9
5	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
6	Room Temperature Fluorescence Blinking in MoS <sub>2</sub> Atomic Layers by Single Photon Energy Transfer. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	5
7	Periodic Fluorescence Variations of CdSe Quantum Dots Coupled to Aryleneethynyls with Aggregation-Induced Emission. <i>ACS Nano</i> , 2021, 15, 480-488.	14.6	4
8	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
9	Sensitive Interferometric Plasmon Ruler Based on a Single Nanodimer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6486-6493.	3.1	10
10	Chemical Imaging of Single Anisotropic Polystyrene/Poly (Methacrylate) Microspheres with Complex Hierarchical Architecture. <i>Polymers</i> , 2021, 13, 1438.	4.5	2
11	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
12	Polarized photoluminescence spectroscopy in WS <sub>2</sub> , WSe <sub>2</sub> atomic layers and heterostructures by cylindrical vector beams*. <i>Chinese Physics B</i> , 2021, 30, 087802.	1.4	1
13	Nanoscale plasmonic phase sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3405-3411.	3.7	4
14	Direct phase mapping of the light scattered by single plasmonic nanoparticles. <i>Nanoscale</i> , 2020, 12, 1083-1090.	5.6	7
15	Structural order enhances charge carrier transport in self-assembled Au-nanoclusters. <i>Nature Communications</i> , 2020, 11, 6188.	12.8	32
16	Light-Controlled Near-Field Energy Transfer in Plasmonic Metasurface Coupled MoS <sub>2</sub> Monolayer. <i>Small</i> , 2020, 16, 2003539.	10.0	16
17	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. <i>Nature Communications</i> , 2020, 11, 4442.	12.8	44
18	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

#	ARTICLE	IF	CITATIONS
19	Revealing Excitonic and Electron-Hole Plasma States in Stimulated Emission of Single $\text{CsPbBr}_3$ Nanowires at Room Temperature. <i>Physical Review Applied</i> , 2020, 13, .	3.8	19
20	A flexible platform for controlled optical and electrical effects in tailored plasmonic break junctions. <i>Nanophotonics</i> , 2020, 9, 1391-1400.	6.0	10
21	Simultaneous positive and negative optical patterning with dye-sensitized CdSe quantum dots. <i>Journal of Chemical Physics</i> , 2019, 151, 141102.	3.0	4
22	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
23	Fast, Infrared-Active Optical Transistors Based on Dye-Sensitized CdSe Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48271-48280.	8.0	7
24	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 11733-11737.	2.0	7
25	Active optical antennas driven by inelastic electron tunneling. <i>Nanophotonics</i> , 2018, 7, 1503-1516.	6.0	15
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	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
28	STM tip-enhanced Raman spectroscopy and the investigation of doped graphene. <i>Vibrational Spectroscopy</i> , 2017, 91, 128-135.	2.2	10
29	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
30	Nonlinear optical imaging of single plasmonic nanoparticles with 30 nm resolution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21288-21293.	2.8	30
31	Enhancement of Radiative Plasmon Decay by Hot Electron Tunneling. <i>ACS Nano</i> , 2015, 9, 8176-8183.	14.6	34
32	Tip-enhanced Raman spectroscopy – an interlaboratory reproducibility and comparison study. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 22-31.	2.5	94
33	Au Nanotip as Luminescent Near-Field Probe. <i>Nano Letters</i> , 2013, 13, 3566-3570.	9.1	21
34	Plasmonic oligomers in cylindrical vector light beams. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 57-65.	2.8	16
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Parabolic mirror-assisted tip-enhanced spectroscopic imaging for non-transparent materials. Journal of Raman Spectroscopy, 2009, 40, 1371-1376.	2.5	76
38	Nanocones on transparent substrates for investigations in scanning probe microscopes. Microelectronic Engineering, 2009, 86, 1219-1221.	2.4	18
39	Three-dimensional optical antennas: Nanocones in an apertureless scanning near-field microscope. Applied Physics Letters, 2008, 93, 111114.	3.3	53
40	Arrays of Well-Defined Size-Tunable Metallic Nano-Cones for Plasmonic Applications. Materials Research Society Symposia Proceedings, 2007, 1055, 4.	0.1	2