

David K Kim

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,849
citations

361388

20
h-index

677123

22
g-index

22
all docs

22
docs citations

22
times ranked

3450
citing authors

#	ARTICLE	IF	CITATIONS
1	Bandlike Transport in Strongly Coupled and Doped Quantum Dot Solids: A Route to High-Performance Thin-Film Electronics. <i>Nano Letters</i> , 2012, 12, 2631-2638.	9.1	340
2	Thiocyanate-Capped Nanocrystal Colloids: Vibrational Reporter of Surface Chemistry and Solution-Based Route to Enhanced Coupling in Nanocrystal Solids. <i>Journal of the American Chemical Society</i> , 2011, 133, 15753-15761.	13.7	309
3	Flexible and low-voltage integrated circuits constructed from high-performance nanocrystal transistors. <i>Nature Communications</i> , 2012, 3, 1216.	12.8	172
4	Impact of ionizing radiation on superconducting qubit coherence. <i>Nature</i> , 2020, 584, 551-556.	27.8	118
5	Confocal reference free traction force microscopy. <i>Nature Communications</i> , 2016, 7, 12814.	12.8	109
6	Wedge Waveguides and Resonators for Quantum Plasmonics. <i>Nano Letters</i> , 2015, 15, 6267-6275.	9.1	107
7	Near-Field Light Design with Colloidal Quantum Dots for Photonics and Plasmonics. <i>Nano Letters</i> , 2014, 14, 5827-5833.	9.1	70
8	Direct Patterning of Colloidal Quantum-Dot Thin Films for Enhanced and Spectrally Selective Out-Coupling of Emission. <i>Nano Letters</i> , 2017, 17, 1319-1325.	9.1	68
9	Ultraviolet Plasmonic Chirality from Colloidal Aluminum Nanoparticles Exhibiting Charge-selective Protein Detection. <i>Advanced Materials</i> , 2015, 27, 6244-6250.	21.0	63
10	Photocatalytic Water-Splitting Enhancement by Sub-Bandgap Photon Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40180-40186.	8.0	60
11	Low-Frequency ($1/f$) Noise in Nanocrystal Field-Effect Transistors. <i>ACS Nano</i> , 2014, 8, 9664-9672.	14.6	55
12	Flexible, Low-Voltage, and Low-Hysteresis PbSe Nanowire Field-Effect Transistors. <i>ACS Nano</i> , 2011, 5, 10074-10083.	14.6	53
13	In Situ Repair of High-Performance, Flexible Nanocrystal Electronics for Large-Area Fabrication and Operation in Air. <i>ACS Nano</i> , 2013, 7, 8275-8283.	14.6	52
14	Flexible, High-Speed CdSe Nanocrystal Integrated Circuits. <i>Nano Letters</i> , 2015, 15, 7155-7160.	9.1	52
15	A customizable class of colloidal-quantum-dot metallic lasers and amplifiers. <i>Science Advances</i> , 2017, 3, e1700688.	10.3	50
16	Solution-Based Stoichiometric Control over Charge Transport in Nanocrystalline CdSe Devices. <i>ACS Nano</i> , 2013, 7, 8760-8770.	14.6	43
17	Ambipolar and Unipolar PbSe Nanowire Field-Effect Transistors. <i>ACS Nano</i> , 2011, 5, 3230-3236.	14.6	31
18	Remote Doping and Schottky Barrier Formation in Strongly Quantum Confined Single PbSe Nanowire Field-Effect Transistors. <i>ACS Nano</i> , 2012, 6, 4328-4334.	14.6	30

#	ARTICLE	IF	CITATIONS
19	Full-Spectrum Flexible Color Printing at the Diffraction Limit. ACS Photonics, 2016, 3, 754-757.	6.6	29
20	Room-Temperature Strong Coupling of CdSe Nanoplatelets and Plasmonic Hole Arrays. Nano Letters, 2019, 19, 108-115.	9.1	23
21	Improving qubit coherence using closed-loop feedback. Nature Communications, 2022, 13, 1932.	12.8	11
22	Defect-Tolerant Plasmonic Elliptical Resonators for Long-Range Energy Transfer. ACS Nano, 2019, 13, 9048-9056.	14.6	4