

David K Kim

List of Publications by Citations

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22
papers

1,531
citations

19
h-index

22
g-index

22
ext. papers

1,709
ext. citations

15.9
avg, IF

4.13
L-index

#	Paper	IF	Citations
22	Bandlike transport in strongly coupled and doped quantum dot solids: a route to high-performance thin-film electronics. <i>Nano Letters</i> , 2012 , 12, 2631-8	11.5	310
21	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, 15753-61	16.4	278
20	Flexible and low-voltage integrated circuits constructed from high-performance nanocrystal transistors. <i>Nature Communications</i> , 2012 , 3, 1216	17.4	159
19	Wedge Waveguides and Resonators for Quantum Plasmonics. <i>Nano Letters</i> , 2015 , 15, 6267-75	11.5	88
18	Confocal reference free traction force microscopy. <i>Nature Communications</i> , 2016 , 7, 12814	17.4	78
17	Ultraviolet Plasmonic Chirality from Colloidal Aluminum Nanoparticles Exhibiting Charge-Selective Protein Detection. <i>Advanced Materials</i> , 2015 , 27, 6244-50	24	55
16	Near-field light design with colloidal quantum dots for photonics and plasmonics. <i>Nano Letters</i> , 2014 , 14, 5827-33	11.5	55
15	Flexible, low-voltage, and low-hysteresis PbSe nanowire field-effect transistors. <i>ACS Nano</i> , 2011 , 5, 10074-83	16.7	50
14	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	11.5	48
13	In situ repair of high-performance, flexible nanocrystal electronics for large-area fabrication and operation in air. <i>ACS Nano</i> , 2013 , 7, 8275-83	16.7	48
12	Flexible, High-Speed CdSe Nanocrystal Integrated Circuits. <i>Nano Letters</i> , 2015 , 15, 7155-60	11.5	47
11	Impact of ionizing radiation on superconducting qubit coherence. <i>Nature</i> , 2020 , 584, 551-556	50.4	47
10	Photocatalytic Water-Splitting Enhancement by Sub-Bandgap Photon Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40180-40186	9.5	45
9	Low-frequency (1/f) noise in nanocrystal field-effect transistors. <i>ACS Nano</i> , 2014 , 8, 9664-72	16.7	43
8	Solution-based stoichiometric control over charge transport in nanocrystalline CdSe devices. <i>ACS Nano</i> , 2013 , 7, 8760-70	16.7	41
7	A customizable class of colloidal-quantum-dot spasers and plasmonic amplifiers. <i>Science Advances</i> , 2017 , 3, e1700688	14.3	39
6	Ambipolar and unipolar PbSe nanowire field-effect transistors. <i>ACS Nano</i> , 2011 , 5, 3230-6	16.7	29

5	Remote doping and Schottky barrier formation in strongly quantum confined single PbSe nanowire field-effect transistors. <i>ACS Nano</i> , 2012 , 6, 4328-34	16.7	28
4	Full-Spectrum Flexible Color Printing at the Diffraction Limit. <i>ACS Photonics</i> , 2016 , 3, 754-757	6.3	25
3	Room-Temperature Strong Coupling of CdSe Nanoplatelets and Plasmonic Hole Arrays. <i>Nano Letters</i> , 2019 , 19, 108-115	11.5	17
2	Defect-Tolerant Plasmonic Elliptical Resonators for Long-Range Energy Transfer. <i>ACS Nano</i> , 2019 , 13, 9048-9056	16.7	1
1	Improving qubit coherence using closed-loop feedback.. <i>Nature Communications</i> , 2022 , 13, 1932	17.4	0