Sean E Keuleyan

List of Publications by Year
in descending order

20 papers	1,799 citations	471509 17 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	2052 citing authors

#	Article	IF	Citations
1	Mid-infrared HgTe colloidal quantum dot photodetectors. Nature Photonics, 2011, 5, 489-493.	31.4	389
2	Synthesis of Colloidal HgTe Quantum Dots for Narrow Mid-IR Emission and Detection. Journal of the American Chemical Society, 2011, 133, 16422-16424.	13.7	248
3	Contact Angle Measurements Using a Simplified Experimental Setup. Journal of Chemical Education, 2010, 87, 1403-1407.	2.3	202
4	Mercury Telluride Colloidal Quantum Dots: Electronic Structure, Size-Dependent Spectra, and Photocurrent Detection up to 12 Î¼m. ACS Nano, 2014, 8, 8676-8682.	14.6	130
5	Air-Stable n-Doped Colloidal HgS Quantum Dots. Journal of Physical Chemistry Letters, 2014, 5, 1139-1143.	4.6	110
6	Midâ€Infrared HgTe/As₂S₃ Field Effect Transistors and Photodetectors. Advanced Materials, 2013, 25, 137-141.	21.0	108
7	Strongly Confined HgTe 2D Nanoplatelets as Narrow Near-Infrared Emitters. Journal of the American Chemical Society, 2016, 138, 10496-10501.	13.7	98
8	Optical properties of HgTe colloidal quantum dots. Nanotechnology, 2012, 23, 175705.	2.6	87
9	Photoluminescence of Mid-Infrared HgTe Colloidal Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 2749-2753.	3.1	76
10	Mid-IR Colloidal Nanocrystals. Chemistry of Materials, 2013, 25, 1272-1282.	6.7	64
11	A Silicon-Based Two-Dimensional Chalcogenide: Growth of Si₂Te₃ Nanoribbons and Nanoplates. Nano Letters, 2015, 15, 2285-2290.	9.1	55
12	n- and p-Type HgTe Quantum Dot Films. Journal of Physical Chemistry C, 2012, 116, 1344-1349.	3.1	53
13	Charge Dynamics and Optolectronic Properties in HgTe Colloidal Quantum Wells. Nano Letters, 2017, 17, 4067-4074.	9.1	48
14	Thermal properties of mid-infrared colloidal quantum dot detectors. Journal of Applied Physics, 2011, 110, .	2.5	43
15	HgSe Self-Doped Nanocrystals as a Platform to Investigate the Effects of Vanishing Confinement. ACS Applied Materials & Interfaces, 2017, 9, 36173-36180.	8.0	40
16	Colloidal HgTe Material for Low-Cost Detection into the MWIR. Journal of Electronic Materials, 2012, 41, 2725-2729.	2.2	18
17	Colloidal quantum dots for mid-IR applications. Infrared Physics and Technology, 2013, 59, 133-136.	2.9	18
18	Transport properties of mid-infrared colloidal quantum dot films. Proceedings of SPIE, 2012, , .	0.8	4

#	Article	IF	Citations
19	Rapid In Situ Ligandâ€Exchange Process Used to Prepare 3D PbSe Nanocrystal Superlattice Infrared Photodetectors. Small, 2021, 17, e2101166.	10.0	4
20	Infrared Photodetectors: Rapid In Situ Ligandâ€Exchange Process Used to Prepare 3D PbSe Nanocrystal Superlattice Infrared Photodetectors (Small 25/2021). Small, 2021, 17, 2170124.	10.0	0