

Bertille Martinez

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,064
citations

393982

19
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476904

29
g-index

29
all docs

29
docs citations

29
times ranked

957
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A colloidal quantum dot infrared photodetector and its use for intraband detection. <i>Nature Communications</i> , 2019, 10, 2125. | 5.8 | 155 |
| 2 | Terahertz HgTe Nanocrystals: Beyond Confinement. <i>Journal of the American Chemical Society</i> , 2018, 140, 5033-5036. | 6.6 | 107 |
| 3 | Intraband Mid-Infrared Transitions in Ag ₂ Se Nanocrystals: Potential and Limitations for Hg-Free Low-Cost Photodetection. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18161-18167. | 1.5 | 59 |
| 4 | HgTe Nanocrystals for SWIR Detection and Their Integration up to the Focal Plane Array. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33116-33123. | 4.0 | 53 |
| 5 | Road Map for Nanocrystal Based Infrared Photodetectors. <i>Frontiers in Chemistry</i> , 2018, 6, 575. | 1.8 | 52 |
| 6 | HgTe Nanocrystal Inks for Extended Short-Wave Infrared Detection. <i>Advanced Optical Materials</i> , 2019, 7, 1900348. | 3.6 | 52 |
| 7 | Design of a Unipolar Barrier for a Nanocrystal-Based Short-Wave Infrared Photodiode. <i>ACS Photonics</i> , 2018, 5, 4569-4576. | 3.2 | 49 |
| 8 | Short Wave Infrared Devices Based on HgTe Nanocrystals with Air Stable Performances. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14979-14985. | 1.5 | 49 |
| 9 | Charge Dynamics and Optoelectronic Properties in HgTe Colloidal Quantum Wells. <i>Nano Letters</i> , 2017, 17, 4067-4074. | 4.5 | 48 |
| 10 | Doping as a Strategy to Tune Color of 2D Colloidal Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10128-10134. | 4.0 | 48 |
| 11 | Near Unity Absorption in Nanocrystal Based Short Wave Infrared Photodetectors Using Guided Mode Resonators. <i>ACS Photonics</i> , 2019, 6, 2553-2561. | 3.2 | 44 |
| 12 | HgSe Self-Doped Nanocrystals as a Platform to Investigate the Effects of Vanishing Confinement. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36173-36180. | 4.0 | 40 |
| 13 | Probing Charge Carrier Dynamics to Unveil the Role of Surface Ligands in HgTe Narrow Band Gap Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 859-865. | 1.5 | 37 |
| 14 | Coupled HgSe Colloidal Quantum Wells through a Tunable Barrier: A Strategy To Uncouple Optical and Transport Band Gap. <i>Chemistry of Materials</i> , 2018, 30, 4065-4072. | 3.2 | 32 |
| 15 | Emergence of intraband transitions in colloidal nanocrystals [Invited]. <i>Optical Materials Express</i> , 2018, 8, 1174. | 1.6 | 27 |
| 16 | Wave-Function Engineering in HgSe/HgTe Colloidal Heterostructures To Enhance Mid-infrared Photoconductive Properties. <i>Nano Letters</i> , 2018, 18, 4590-4597. | 4.5 | 24 |
| 17 | Band Edge Dynamics and Multiexciton Generation in Narrow Band Gap HgTe Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11880-11887. | 4.0 | 23 |
| 18 | Field-Effect Transistor and Photo-Transistor of Narrow-Band-Gap Nanocrystal Arrays Using Ionic Glasses. <i>Nano Letters</i> , 2019, 19, 3981-3986. | 4.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electronic structure of CdSe-ZnS 2D nanoplatelets. Applied Physics Letters, 2017, 110, . | 1.5 | 21 |
| 20 | Strategy to overcome recombination limited photocurrent generation in CsPbX ₃ nanocrystal arrays. Applied Physics Letters, 2018, 112, . | 1.5 | 19 |
| 21 | Transport in ITO Nanocrystals with Short- to Long-Wave Infrared Absorption for Heavy-Metal-Free Infrared Photodetection. ACS Applied Nano Materials, 2019, 2, 1621-1630. | 2.4 | 19 |
| 22 | Impact of dimensionality and confinement on the electronic properties of mercury chalcogenide nanocrystals. Nanoscale, 2019, 11, 3905-3915. | 2.8 | 18 |
| 23 | Effect of Pressure on Interband and Intraband Transition of Mercury Chalcogenide Quantum Dots. Journal of Physical Chemistry C, 2019, 123, 13122-13130. | 1.5 | 18 |
| 24 | Polyoxometalate as Control Agent for the Doping in HgSe Self-Doped Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 26680-26685. | 1.5 | 16 |
| 25 | Potential of Colloidal Quantum Dot Based Solar Cells for Near-Infrared Active Detection. ACS Photonics, 2020, 7, 272-278. | 3.2 | 13 |
| 26 | Revealing the Band Structure of FAPI Quantum Dot Film and Its Interfaces with Electron and Hole Transport Layer Using Time Resolved Photoemission. Journal of Physical Chemistry C, 2020, 124, 3873-3880. | 1.5 | 10 |
| 27 | Azobenzenes as Light-Activable Carrier Density Switches in Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 27257-27263. | 1.5 | 3 |
| 28 | Designing Photovoltaic Devices Using HgTe Nanocrystals for Short and Mid-Wave Infrared Detection. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900449. | 0.8 | 3 |
| 29 | HgTe, the Most Tunable Colloidal Material: from the Strong Confinement Regime to THz Material. MRS Advances, 2018, 3, 2913-2921. | 0.5 | 2 |