

Dong-Kyun Ko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8059218/publications.pdf>

Version: 2024-02-01

27
papers

1,022
citations

516681

16
h-index

526264

27
g-index

27
all docs

27
docs citations

27
times ranked

1903
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Enhanced Thermopower via Carrier Energy Filtering in Solution-Processable PtSb ₂ Te ₃ Nanocomposites. Nano Letters, 2011, 11, 2841-2844. | 9.1 | 230 |
| 2 | Size-dependent phase transition memory switching behavior and low writing currents in GeTe nanowires. Applied Physics Letters, 2006, 89, 223116. | 3.3 | 116 |
| 3 | Photovoltaic Performance of PbS Quantum Dots Treated with Metal Salts. ACS Nano, 2016, 10, 3382-3388. | 14.6 | 75 |
| 4 | Colloidal quantum dots for thermal infrared sensing and imaging. Nano Convergence, 2019, 6, 7. | 12.1 | 73 |
| 5 | pn Heterojunction Solar Cells with a Colloidal Quantum Dot Absorber Layer. Advanced Materials, 2014, 26, 4845-4850. | 21.0 | 67 |
| 6 | Probing the Fermi Energy Level and the Density of States Distribution in PbTe Nanocrystal (Quantum) Tunneling Junctions. Nano Letters, 2010, 10, 1842-1847. | 14.8 | 56 |
| 7 | Protein-directed self-assembly of a fullerene crystal. Nature Communications, 2016, 7, 11429. | 12.8 | 55 |
| 8 | Near-Infrared Absorption of Monodisperse Silver Telluride (Ag ₂ Te) Nanocrystals and Photoconductive Response of Their Self-Assembled Superlattices. Chemistry of Materials, 2011, 23, 4657-4659. | 6.7 | 51 |
| 9 | Silver Selenide Colloidal Quantum Dots for Mid-Wavelength Infrared Photodetection. ACS Applied Nano Materials, 2019, 2, 1631-1636. | 5.0 | 47 |
| 10 | Carrier Distribution and Dynamics of Nanocrystal Solids Doped with Artificial Atoms. Nano Letters, 2010, 10, 1842-1847. | 9.1 | 45 |
| 11 | Scalable Van der Waals Two-Dimensional PtTe ₂ Layers Integrated onto Silicon for Efficient Near-to-Mid Infrared Photodetection. ACS Applied Materials & Interfaces, 2021, 13, 15542-15550. | 8.0 | 27 |
| 12 | Colloidal-annealing of ZnO nanoparticles to passivate traps and improve charge extraction in colloidal quantum dot solar cells. Nanoscale, 2019, 11, 17498-17505. | 5.6 | 26 |
| 13 | Paper Thermoelectrics: Merging Nanotechnology with Naturally Abundant Fibrous Material. ACS Applied Materials & Interfaces, 2016, 8, 22182-22189. | 8.0 | 23 |
| 14 | High-performance thermoelectric silver selenide thin films cation exchanged from a copper selenide template. Nanoscale Advances, 2020, 2, 368-376. | 4.6 | 21 |
| 15 | Wafer-scale 2D PtTe ₂ layers-enabled Kirigami heaters with superior mechanical stretchability and electro-thermal responsiveness. Applied Materials Today, 2020, 20, 100718. | 4.3 | 21 |
| 16 | The role of third cation doping on phase stability, carrier transport and carrier suppression in amorphous oxide semiconductors. Journal of Materials Chemistry C, 2020, 8, 13798-13810. | 5.5 | 18 |
| 17 | Vertically Stacked Intraband Quantum Dot Devices for Mid-Wavelength Infrared Photodetection. ACS Applied Materials & Interfaces, 2021, 13, 937-943. | 8.0 | 18 |
| 18 | Ligand engineering of mid-infrared Ag ₂ Se colloidal quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114223. | 2.7 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Midwavelength Infrared μ n Heterojunction Diodes Based on Intraband Colloidal Quantum Dots. ACS Applied Materials & Interfaces, 2021, 13, 49043-49049. | 8.0 | 14 |
| 20 | <i>(Invited)</i> Mid-Infrared Colloidal Quantum Dot Based Nanoelectronics and Nano-Optoelectronics. ECS Transactions, 2019, 92, 11-16. | 0.5 | 5 |
| 21 | Peel-and-Stick Integration of Atomically Thin Nonlayered PtS Semiconductors for Multidimensionally Stretchable Electronic Devices. ACS Applied Materials & Interfaces, 2022, 14, 20268-20279. | 8.0 | 5 |
| 22 | Photoluminescence in PbS nanocrystal thin films: Nanocrystal density, film morphology and energy transfer. Journal of Applied Physics, 2020, 128, 134301. | 2.5 | 4 |
| 23 | High-Performance Oxide-Based μ n Heterojunctions Integrating p-SnO _x and n-InGaZnO. ACS Applied Materials & Interfaces, 2021, 13, 55676-55686. | 8.0 | 4 |
| 24 | Mid-Wavelength Infrared Responsivity of Colloidal Quantum Dot/Organic Hybrid Photodetectors. ECS Transactions, 2020, 97, 109-115. | 0.5 | 2 |
| 25 | Property engineering through nanomaterial chemical transformation of colloidal nanocrystal thin films. Applied Surface Science, 2020, 513, 145721. | 6.1 | 2 |
| 26 | Intraband Quantum Dot Barrier Devices - Optimization of Energy Level Alignment. ECS Transactions, 2021, 102, 45-51. | 0.5 | 2 |
| 27 | Mid-Wavelength Infrared Responsivity of Colloidal Quantum Dot/Organic Hybrid Photodetectors. ECS Meeting Abstracts, 2020, MA2020-01, 1049-1049. | 0.0 | 1 |