Xiaogang Peng

List of Publications by Year in descending order

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200 papers 56,026 citations

91 h-index 199 g-index

212 all docs 212 docs citations

times ranked

212

32295 citing authors

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| 1 | Efficient quasi-stationary charge transfer from quantum dots to acceptors physically-adsorbed in the ligand monolayer. Nano Research, 2022, 15, 617-626. | 5.8 | 13 |
| 2 | Water molecules bonded to the carboxylate groups at the inorganic–organic interface of an inorganic nanocrystal coated with alkanoate ligands. National Science Review, 2022, 9, nwab138. | 4.6 | 9 |
| 3 | Universal precursors dispersed in Vaseline-octadecene gel for nanocrystal synthesis. Nano Research, 2022, 15, 4724-4731. | 5.8 | 7 |
| 4 | Entropy of Branching Out: Linear versus Branched Alkylthiols Ligands on CdSe Nanocrystals. ACS Nano, 2022, 16, 4308-4321. | 7.3 | 15 |
| 5 | Anomalous Emission Shift of CdSe/CdS/ZnS Quantum Dots at Cryogenic Temperatures. Nano Letters, 2022, 22, 3011-3017. | 4.5 | 11 |
| 6 | Epitaxial Integration of Multiple CdSe Quantum Dots in a Colloidal CdS Nanoplatelet. Journal of the American Chemical Society, 2022, 144, 8444-8448. | 6.6 | 8 |
| 7 | Enhancing Dielectric Screening for Auger Suppression in CdSe/CdS Quantum Dots by Epitaxial Growth of ZnS Shell. Nano Letters, 2021, 21, 3871-3878. | 4.5 | 29 |
| 8 | Engineering of Exciton Spatial Distribution in CdS Nanoplatelets. Nano Letters, 2021, 21, 5201-5208. | 4.5 | 18 |
| 9 | Phonon-assisted up-conversion photoluminescence of quantum dots. Nature Communications, 2021, 12, 4283. | 5 . 8 | 37 |
| 10 | Current Status and Challenges of Solar Cells Based on Semiconductor Nanocrystals. Energy & En | 2.5 | 12 |
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| 14 | Tuning the Reactivity of Indium Alkanoates by Tertiary Organophosphines for the Synthesis of Indium-Based Quantum Dots. Chemistry of Materials, 2021, 33, 9348-9356. | 3.2 | 10 |
| 15 | Highâ€Performance Quantumâ€Dot Lightâ€Emitting Diodes Using NiO <i>_×</i> Holeâ€Injection Layers with a High and Stable Work Function. Advanced Functional Materials, 2020, 30, 1907265. | 7.8 | 48 |
| 16 | Delocalized Surface Electronic States on Polar Facets of Semiconductor Nanocrystals. ACS Nano, 2020, 14, 16614-16623. | 7.3 | 10 |
| 17 | Monodisperse CdSe Quantum Dots Encased in Six (100) Facets via Ligand-Controlled Nucleation and Growth. Journal of the American Chemical Society, 2020, 142, 19926-19935. | 6.6 | 27 |
| 18 | Quantum Dots for Display Applications. Angewandte Chemie, 2020, 132, 22496-22507. | 1.6 | 33 |

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| 21 | Quantum Dots with Highly Efficient, Stable, and Multicolor Electrochemiluminescence. ACS Central Science, 2020, 6, 1129-1137. | 5.3 | 107 |
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