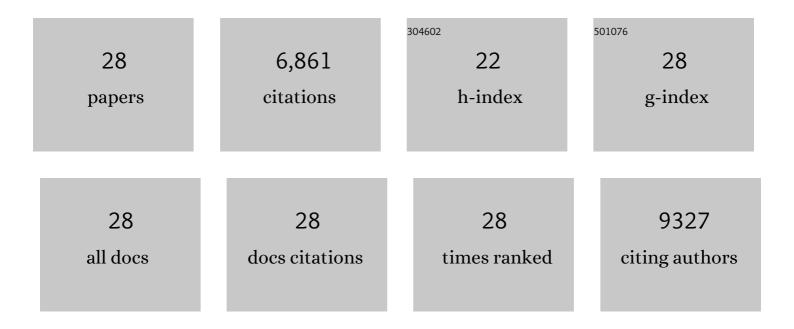
Istvan Robel

List of Publications by Year in descending order

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ISTVAN ROBEL

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Quantum Dot Solar Cells. Harvesting Light Energy with CdSe Nanocrystals Molecularly Linked to Mesoscopic TiO2Films. Journal of the American Chemical Society, 2006, 128, 2385-2393. | 6.6 | 1,724 |
| 2 | Size-Dependent Electron Injection from Excited CdSe Quantum Dots into TiO2Nanoparticles. Journal of the American Chemical Society, 2007, 129, 4136-4137. | 6.6 | 816 |
| 3 | Mn ²⁺ -Doped Lead Halide Perovskite Nanocrystals with Dual-Color Emission Controlled by Halide Content. Journal of the American Chemical Society, 2016, 138, 14954-14961. | 6.6 | 725 |
| 4 | Controlling the influence of Auger recombination on the performance of quantum-dot light-emitting diodes. Nature Communications, 2013, 4, 2661. | 5.8 | 605 |
| 5 | Spectral and Dynamical Properties of Single Excitons, Biexcitons, and Trions in Cesium–Lead-Halide Perovskite Quantum Dots. Nano Letters, 2016, 16, 2349-2362. | 4.5 | 533 |
| 6 | Single-Walled Carbon Nanotube-CdS Nanocomposites as Light-Harvesting Assemblies: Photoinduced Charge-Transfer Interactions. Advanced Materials, 2005, 17, 2458-2463. | 11.1 | 485 |
| 7 | Controlled Alloying of the Core–Shell Interface in CdSe/CdS Quantum Dots for Suppression of Auger Recombination. ACS Nano, 2013, 7, 3411-3419. | 7.3 | 417 |
| 8 | Universal Size-Dependent Trend in Auger Recombination in Direct-Gap and Indirect-Gap Semiconductor Nanocrystals. Physical Review Letters, 2009, 102, 177404. | 2.9 | 314 |
| 9 | Enhanced carrier multiplication in engineered quasi-type-ll quantum dots. Nature Communications, 2014, 5, 4148. | 5.8 | 143 |
| 10 | Highâ€Sensitivity p–n Junction Photodiodes Based on PbS Nanocrystal Quantum Dots. Advanced Functional Materials, 2012, 22, 1741-1748. | 7.8 | 139 |
| 11 | Colloidal Synthesis of Infrared-Emitting Germanium Nanocrystals. Journal of the American Chemical Society, 2009, 131, 3436-3437. | 6.6 | 137 |
| 12 | Exciton Recombination Dynamics in CdSe Nanowires:Â Bimolecular to Three-Carrier Auger Kinetics. Nano Letters, 2006, 6, 1344-1349. | 4.5 | 129 |
| 13 | Heavily doped n-type PbSe and PbS nanocrystals using ground-state charge transfer from cobaltocene. Scientific Reports, 2013, 3, 2004. | 1.6 | 116 |
| 14 | Terahertz All-Optical Molecule- Plasmon Modulation. Advanced Materials, 2006, 18, 1645-1648. | 11.1 | 103 |
| 15 | Spectroscopic Signatures of Photocharging due to Hot-Carrier Transfer in Solutions of Semiconductor Nanocrystals under Low-Intensity Ultraviolet Excitation. ACS Nano, 2010, 4, 6087-6097. | 7.3 | 87 |
| 16 | Infrared-Active Heterostructured Nanocrystals with Ultralong Carrier Lifetimes. Journal of the American Chemical Society, 2010, 132, 9960-9962. | 6.6 | 80 |
| 17 | Spectral Dependence of Nanocrystal Photoionization Probability: The Role of Hot-Carrier Transfer. ACS Nano, 2011, 5, 5045-5055. | 7.3 | 74 |
| 18 | Electronic structure of multiquantum giant vortex states in mesoscopic superconducting disks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5233-5236. | 3.3 | 37 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Perspectives on Designer Photocathodes for X-ray Free-Electron Lasers: Influencing Emission Properties with Heterostructures and Nanoengineered Electronic States. Physical Review Applied, 2018, 10, . | 1.5 | 36 |
| 20 | Auger Up-Conversion of Low-Intensity Infrared Light in Engineered Quantum Dots. ACS Nano, 2016, 10, 10829-10841. | 7.3 | 31 |
| 21 | Hot-electron dynamics in quantum dots manipulated by spin-exchange Auger interactions. Nature Nanotechnology, 2019, 14, 1035-1041. | 15.6 | 31 |
| 22 | Photocharging Artifacts in Measurements of Electron Transfer in Quantum-Dot-Sensitized Mesoporous Titania Films. Journal of Physical Chemistry Letters, 2014, 5, 111-118. | 2.1 | 29 |
| 23 | Tuning the Redox Coupling between Quantum Dots and Dopamine in Hybrid Nanoscale Assemblies. Journal of Physical Chemistry C, 2015, 119, 3388-3399. | 1.5 | 22 |
| 24 | Structural changes and catalytic activity of platinum nanoparticles supported on C60 and carbon nanotube films during the operation of direct methanol fuel cells. Applied Physics Letters, 2006, 88, 073113. | 1.5 | 21 |
| 25 | Temperature and Magnetic-Field Dependence of Radiative Decay in Colloidal Germanium Quantum Dots. Nano Letters, 2015, 15, 2685-2692. | 4.5 | 10 |
| 26 | Thermal stability of two-dimensional gold nanocrystal superlattices. Journal of Physics Condensed Matter, 2009, 21, 264011. | 0.7 | 9 |
| 27 | Quantum Dot Thin-Films as Rugged, High-Performance Photocathodes. Nano Letters, 2017, 17, 2319-2327. | 4.5 | 6 |
| 28 | Phonon-assisted nonlinear optical processes in ultrashort-pulse pumped optical parametric amplifiers. Scientific Reports, 2016, 6, 23031. | 1.6 | 2 |