

Houman Bahmani Jalali

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

736
citations

471509

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610901

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28
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28
docs citations

28
times ranked

597
citing authors

#	ARTICLE	IF	CITATIONS
1	Stokes-Shift-Engineered Indium Phosphide Quantum Dots for Efficient Luminescent Solar Concentrators. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12975-12982.	8.0	93
2	Quantum dot white LEDs with high luminous efficiency. <i>Optica</i> , 2018, 5, 793.	9.3	84
3	Effective Neural Photostimulation Using Indium-Based Type-II Quantum Dots. <i>ACS Nano</i> , 2018, 12, 8104-8114.	14.6	52
4	Past, present and future of indium phosphide quantum dots. <i>Nano Research</i> , 2022, 15, 4468-4489.	10.4	50
5	Ecofriendly and Efficient Luminescent Solar Concentrators Based on Fluorescent Proteins. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8710-8716.	8.0	45
6	Cadmium-Free and Efficient Type-II InP/ZnO/ZnS Quantum Dots and Their Application for LEDs. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32022-32030.	8.0	41
7	Light-Emitting Devices Based on Type-II InP/ZnO Quantum Dots. <i>ACS Photonics</i> , 2019, 6, 939-946.	6.6	35
8	Switchable Anion Exchange in Polymer-Encapsulated APbX ₃ Nanocrystals Delivers Stable All-Perovskite White Emitters. <i>ACS Energy Letters</i> , 2021, 6, 2844-2853.	17.4	34
9	High-Performance, Large-Area, and Ecofriendly Luminescent Solar Concentrators Using Copper-Doped InP Quantum Dots. <i>IScience</i> , 2020, 23, 101272.	4.1	32
10	Structural control of InP/ZnS core/shell quantum dots enables high-quality white LEDs. <i>Nanotechnology</i> , 2018, 29, 345605.	2.6	30
11	Cesium Manganese Bromide Nanocrystal Sensitizers for Broadband Vis-to-NIR Downshifting. <i>ACS Energy Letters</i> , 2022, 7, 1850-1858.	17.4	30
12	Excitonic Energy Transfer within InP/ZnS Quantum Dot Langmuir-Blodgett Assemblies. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11616-11622.	3.1	27
13	Photovoltaic neurointerface based on aluminum antimonide nanocrystals. <i>Communications Materials</i> , 2021, 2, .	6.9	23
14	Biocompatible Quantum Funnel for Neural Photostimulation. <i>Nano Letters</i> , 2019, 19, 5975-5981.	9.1	22
15	ZnCl ₂ Mediated Synthesis of InAs Nanocrystals with Aminoarsine. <i>Journal of the American Chemical Society</i> , 2022, 144, 10515-10523.	13.7	21
16	Exciton recycling via InP quantum dot funnels for luminescent solar concentrators. <i>Nano Research</i> , 2021, 14, 1488-1494.	10.4	20
17	Plasmon-Coupled Photocapacitor Neuromodulators. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35940-35949.	8.0	18
18	High-Performance White Light-Emitting Diodes over 150 lm/W Using Near-Unity-Emitting Quantum Dots in a Liquid Matrix. <i>ACS Photonics</i> , 2022, 9, 1304-1314.	6.6	18

#	ARTICLE	IF	CITATIONS
19	Single transverse mode protein laser. Applied Physics Letters, 2017, 111, 231103.	3.3	14
20	Colloidal Aluminum Antimonide Quantum Dots. Chemistry of Materials, 2019, 31, 4743-4747.	6.7	14
21	Nanoengineering InP Quantum Dot-Based Photoactive Biointerfaces for Optical Control of Neurons. Frontiers in Neuroscience, 2021, 15, 652608.	2.8	13
22	Ultraefficient Green LEDs Using Quantum Dots in Liquid Matrix. IEEE Transactions on Electron Devices, 2019, 66, 4784-4789.	3.0	7
23	Facile purification protocol of CsPbBr ₃ nanocrystals for light-emitting diodes with improved performance. Optical Materials: X, 2022, 13, 100124.	0.8	7
24	Structural and optical properties of nitrogen-iron co-doped titanium dioxide films prepared via sol-gel dip-coating: Effect of urea and iron nitrate concentration in the sol. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 657-664.	0.9	5
25	Single transverse mode eGFP modified silk fibroin laser. , 2018, , .		1
26	Broadband Vis-to-NIR Downshifting with Lanthanide doped Cesium Manganese Bromide NCs. , 0, , .		0