Houman Bahmani Jalali

List of Publications by Year
in descending order

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26 papers	736 citations	471509 17 h-index	610901 24 g-index
28 all docs	28 docs citations	28 times ranked	597 citing authors

#	Article	IF	Citations
1	Past, present and future of indium phosphide quantum dots. Nano Research, 2022, 15, 4468-4489.	10.4	50
2	Facile purification protocol of CsPbBr3 nanocrystals for light-emitting diodes with improved performance. Optical Materials: X, 2022, 13, 100124.	0.8	7
3	High-Performance White Light-Emitting Diodes over 150 lm/W Using Near-Unity-Emitting Quantum Dots in a Liquid Matrix. ACS Photonics, 2022, 9, 1304-1314.	6.6	18
4	Cesium Manganese Bromide Nanocrystal Sensitizers for Broadband Vis-to-NIR Downshifting. ACS Energy Letters, 2022, 7, 1850-1858.	17.4	30
5	ZnCl₂ Mediated Synthesis of InAs Nanocrystals with Aminoarsine. Journal of the American Chemical Society, 2022, 144, 10515-10523.	13.7	21
6	Exciton recycling via InP quantum dot funnels for luminescent solar concentrators. Nano Research, 2021, 14, 1488-1494.	10.4	20
7	Photovoltaic neurointerface based on aluminum antimonide nanocrystals. Communications Materials, 2021, 2, .	6.9	23
8	Nanoengineering InP Quantum Dot-Based Photoactive Biointerfaces for Optical Control of Neurons. Frontiers in Neuroscience, 2021, 15, 652608.	2.8	13
9	Cadmium-Free and Efficient Type-II InP/ZnO/ZnS Quantum Dots and Their Application for LEDs. ACS Applied Materials & Interfaces, 2021, 13, 32022-32030.	8.0	41
10	Switchable Anion Exchange in Polymer-Encapsulated APbX₃ Nanocrystals Delivers Stable All-Perovskite White Emitters. ACS Energy Letters, 2021, 6, 2844-2853.	17.4	34
11	Plasmon-Coupled Photocapacitor Neuromodulators. ACS Applied Materials & Interfaces, 2020, 12, 35940-35949.	8.0	18
12	High-Performance, Large-Area, and Ecofriendly Luminescent Solar Concentrators Using Copper-Doped InP Quantum Dots. IScience, 2020, 23, 101272.	4.1	32
13	Biocompatible Quantum Funnels for Neural Photostimulation. Nano Letters, 2019, 19, 5975-5981.	9.1	22
14	Ultraefficient Green LEDs Using Quantum Dots in Liquid Matrix. IEEE Transactions on Electron Devices, 2019, 66, 4784-4789.	3.0	7
15	Colloidal Aluminum Antimonide Quantum Dots. Chemistry of Materials, 2019, 31, 4743-4747.	6.7	14
16	Light-Emitting Devices Based on Type-II InP/ZnO Quantum Dots. ACS Photonics, 2019, 6, 939-946.	6.6	35
17	Ecofriendly and Efficient Luminescent Solar Concentrators Based on Fluorescent Proteins. ACS Applied Materials & Interfaces, 2019, 11, 8710-8716.	8.0	45
18	Stokes-Shift-Engineered Indium Phosphide Quantum Dots for Efficient Luminescent Solar Concentrators. ACS Applied Materials & Interfaces, 2018, 10, 12975-12982.	8.0	93

#	Article	IF	Citations
19	Quantum dot white LEDs with high luminous efficiency. Optica, 2018, 5, 793.	9.3	84
20	Effective Neural Photostimulation Using Indium-Based Type-II Quantum Dots. ACS Nano, 2018, 12, 8104-8114.	14.6	52
21	Excitonic Energy Transfer within InP/ZnS Quantum Dot Langmuirâ€“Blodgett Assemblies. Journal of Physical Chemistry C, 2018, 122, 11616-11622.	3.1	27
22	Structural control of InP/ZnS core/shell quantum dots enables high-quality white LEDs. Nanotechnology, 2018, 29, 345605.	2.6	30
23	Single transverse mode eGFP modified silk fibroin laser. , 2018, , .		1
24	Single transverse mode protein laser. Applied Physics Letters, 2017, 111, 231103.	3.3	14
25	Structural and optical properties of nitrogenâ€iron coâ€doped titanium dioxide films prepared via solâ€gel dipâ€coating: Effect of urea and iron nitrate concentration in the sol. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 657-664.	0.9	5
26	Broadband Vis-to-NIR Downshifting with Lanthanide doped Cesium Manganese Bromide NCs. , 0, , .		0