

Ian Dean Hosein

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,134
citations

304743

22
h-index

414414

32
g-index

51
all docs

51
docs citations

51
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Convectively Assembled Nonspherical Mushroom Cap-Based Colloidal Crystals. <i>Langmuir</i> , 2007, 23, 8810-8814.	3.5	86
2	Convectively Assembled Asymmetric Dimer-Based Colloidal Crystals. <i>Langmuir</i> , 2007, 23, 10479-10485.	3.5	68
3	Homogeneous, Core-Shell, and Hollow-Shell ZnS Colloid-Based Photonic Crystals. <i>Langmuir</i> , 2007, 23, 2892-2897.	3.5	61
4	Dimer-Based Three-Dimensional Photonic Crystals. <i>Advanced Functional Materials</i> , 2010, 20, 3085-3091.	14.9	56
5	Dimer Shape Anisotropy: A Nonspherical Colloidal Approach to Omnidirectional Photonic Band Gaps. <i>Langmuir</i> , 2010, 26, 2151-2159.	3.5	48
6	The Promise of Calcium Batteries: Open Perspectives and Fair Comparisons. <i>ACS Energy Letters</i> , 2021, 6, 1560-1565.	17.4	46
7	Evaluation of a pulsed xenon ultraviolet light device for isolation room disinfection in a United Kingdom hospital. <i>American Journal of Infection Control</i> , 2016, 44, e157-e161.	2.3	45
8	A novel calcium-ion solid polymer electrolyte based on crosslinked poly(ethylene glycol) diacrylate. <i>Journal of Power Sources</i> , 2019, 414, 302-307.	7.8	44
9	Magnetically responsive and hollow colloids from nonspherical core-shell particles of peanut-like shape. <i>Journal of Materials Chemistry</i> , 2009, 19, 350-355.	6.7	38
10	Rotator and crystalline films via self-assembly of short-bond-length colloidal dimers. <i>Journal of Materials Chemistry</i> , 2009, 19, 344-349.	6.7	37
11	Plating and Stripping Calcium at Room Temperature in an Ionic-Liquid Electrolyte. <i>ACS Applied Energy Materials</i> , 2020, 3, 2310-2314.	5.1	36
12	Control of Morphology in Polymer Blends through Light Self-Trapping: An <i>in Situ</i> Study of Structure Evolution, Reaction Kinetics, and Phase Separation. <i>Macromolecules</i> , 2017, 50, 3617-3626.	4.8	33
13	Increasing light capture in silicon solar cells with encapsulants incorporating air prisms to reduce metallic contact losses. <i>Optics Express</i> , 2016, 24, A1419.	3.4	31
14	Correlation between native defects and dopants in colloidal lanthanide-doped Ga ₂ O ₃ nanocrystals: a path to enhance functionality and control optical properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3212-3222.	5.5	30
15	Plating and Stripping of Calcium in an Alkyl Carbonate Electrolyte at Room Temperature. <i>ACS Applied Energy Materials</i> , 2019, 2, 7738-7743.	5.1	30
16	A Highly Conductive and Thermally Stable Ionic Liquid Gel Electrolyte for Calcium-Ion Batteries. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2111-2118.	4.4	30
17	Evolution of the faceting, morphology and aspect ratio of gallium oxide nanowires grown by vapor-solid deposition. <i>Journal of Crystal Growth</i> , 2014, 396, 24-32.	1.5	29
18	Tuning Manganese Dopant Spin Interactions in Single GaN Nanowires at Room Temperature. <i>ACS Nano</i> , 2011, 5, 6365-6373.	14.6	28

#	ARTICLE	IF	CITATIONS
19	Synthesis of Micropillar Arrays via Photopolymerization: An in Situ Study of Light-Induced Formation, Growth Kinetics, and the Influence of Oxygen Inhibition. <i>Macromolecules</i> , 2017, 50, 5767-5778.	4.8	25
20	Electronic structure and magnetism of Mn dopants in GaN nanowires: Ensemble vs single nanowire measurements. <i>Applied Physics Letters</i> , 2011, 99, 222504.	3.3	24
21	Tunable Nonlinear Optical Pattern Formation and Microstructure in Cross-Linking Acrylate Systems during Free-Radical Polymerization. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4517-4528.	3.1	24
22	A solid polymer electrolyte for aluminum ion conduction. <i>Results in Physics</i> , 2018, 10, 529-531.	4.1	24
23	A Solid Polymer Electrolyte from Cross-Linked Polytetrahydrofuran for Calcium Ion Conduction. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1837-1844.	4.4	23
24	Superhydrophobic Microporous Substrates via Photocuring: Coupling Optical Pattern Formation to Phase Separation for Process-Tunable Pore Architectures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3094-3105.	8.0	19
25	Optical Autocatalysis Establishes Novel Spatial Dynamics in Phase Separation of Polymer Blends during Photocuring. <i>ACS Macro Letters</i> , 2016, 5, 1237-1241.	4.8	17
26	Waveguide Encoded Lattices (WELs): Slim Polymer Films with Panoramic Fields of View (FOV) and Multiple Imaging Functionality. <i>Advanced Functional Materials</i> , 2017, 27, 1702242.	14.9	16
27	Coupling nonlinear optical waves to photoreactive and phase-separating soft matter: Current status and perspectives. <i>Chaos</i> , 2017, 27, 104611.	2.5	15
28	Polymer Encapsulants Incorporating Light-Guiding Architectures to Increase Optical Energy Conversion in Solar Cells. <i>Advanced Materials</i> , 2018, 30, 1705382.	21.0	14
29	Microfiber Optic Arrays as Top Coatings for Front-Contact Solar Cells toward Mitigation of Shading Loss. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47422-47427.	8.0	13
30	Gel Polymer Electrolytes Based on Cross-Linked Poly(ethylene glycol) Diacrylate for Calcium-Ion Conduction. <i>ACS Omega</i> , 2021, 6, 17095-17102.	3.5	13
31	Molecular Origin of Valence Band Anisotropy in Single $\text{InGa}_{2/3}\text{O}_{3/3}$ Nanowires Investigated by Polarized X-ray Absorption Imaging. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17450-17457.	3.1	11
32	Direct Light-Writing of Nanoparticle-Based Metallo-Dielectric Optical Waveguide Arrays Over Silicon Solar Cells for Wide-Angle Light Collecting Modules. <i>Advanced Optical Materials</i> , 2019, 7, 1900661.	7.3	10
33	A study of calcium ion intercalation in perovskite calcium manganese oxide. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114453.	3.8	10
34	Magnetic property characterization of magnetite (Fe_3O_4) nanorod cores for integrated solenoid rf inductors. <i>Journal of Applied Physics</i> , 2006, 99, 08R903.	2.5	9
35	Waveguide-Imprinted Slim Polymer Films: Beam Steering Coatings for Solar Cells. <i>ACS Photonics</i> , 2019, 6, 878-885.	6.6	9
36	Enhanced Wide-Angle Energy Conversion Using Structure-Tunable Waveguide Arrays as Encapsulation Materials for Silicon Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800716.	1.8	9

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37	Prototyping of Superhydrophobic Surfaces from Structure-Tunable Micropillar Arrays Using Visible Light Photocuring. <i>Advanced Engineering Materials</i> , 2019, 21, 1801150.	3.5	9
38	Light-Directed Organization of Polymer Materials from Photoreactive Formulations. <i>Chemistry of Materials</i> , 2020, 32, 2673-2687.	6.7	8
39	Effect of Coordination Behavior in Polymer Electrolytes for Sodium-Ion Conduction: A Molecular Dynamics Study of Poly(ethylene oxide) and Poly(tetrahydrofuran). <i>Macromolecules</i> , 2021, 54, 8553-8562.	4.8	8
40	A Slim Polymer Film with a Seamless Panoramic Field of View: The Radially Distributed Waveguide Encoded Lattice (RDWEL). <i>Advanced Optical Materials</i> , 2019, 7, 1801091.	7.3	7
41	Observation of intensity dependent phase-separation in photoreactive monomer-nanoparticle formulations under non-uniform visible light irradiation. <i>Soft Matter</i> , 2020, 16, 7256-7269.	2.7	7
42	Simulations of Morphology Evolution in Polymer Blends during Light Self-Trapping. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11717-11726.	3.1	7
43	Multidirectional waveguide arrays in a planar architecture. <i>Proceedings of SPIE</i> , 2014, , .	0.8	6
44	Microtruss structures with enhanced elasticity fabricated through visible light photocuring. <i>Results in Physics</i> , 2017, 7, 2194-2196.	4.1	5
45	A Solid Polymer Electrolyte from Photo-Crosslinked Polytetrahydrofuran and a Cycloaliphatic Epoxide for Lithium-Ion Conduction. <i>MRS Advances</i> , 2020, 5, 2467-2476.	0.9	4
46	Superhydrophobic Polymer Composite Surfaces Developed via Photopolymerization. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4661-4672.	4.4	4
47	Light-induced Self-Writing of polymer composites: A novel approach to develop core-shell type structures. <i>Composites Communications</i> , 2022, 30, 101058.	6.3	4
48	Enhancing Solar Energy Light Capture with Multi-Directional Waveguide Lattices. , 2013, , .		2
49	Simulations of Structure and Morphology in Photoreactive Polymer Blends under Multibeam Irradiation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6700-6715.	3.1	2
50	Introducing and manipulating magnetic dopant exchange interactions in semiconductor nanowires. , 2013, , .		0