

Vivek Maheshwari

List of Publications by Year in descending order

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papers

592
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759233

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25
all docs

25
docs citations

25
times ranked

1021
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene as Cellular Interface: Electromechanical Coupling with Cells. ACS Nano, 2011, 5, 6025-6031.	14.6	97
2	Fluoride-capped nanoceria as a highly efficient oxidase-mimicking nanozyme: inhibiting product adsorption and increasing oxygen vacancies. Nanoscale, 2019, 11, 17841-17850.	5.6	77
3	Graphene as membrane for encapsulation of yeast cells: protective and electrically conducting. Chemical Communications, 2011, 47, 11480.	4.1	69
4	Self-Powered Photodetector Based on Electric-Field-Induced Effects in MAPbI ₃ Perovskite with Improved Stability. ACS Applied Materials & Interfaces, 2018, 10, 21066-21072.	8.0	68
5	A Light Harvesting, Self-Powered Monolith Tactile Sensor Based on Electric Field Induced Effects in MAPbI ₃ Perovskite. Advanced Materials, 2018, 30, 1705778.	21.0	51
6	Ion Mediated Monolayer Deposition of Gold Nanoparticles on Microorganisms: Discrimination by Age. Langmuir, 2010, 26, 371-377.	3.5	30
7	PbI ₂ Initiated Cross-Linking and Integration of a Polymer Matrix with Perovskite Films: 1000 h Operational Devices under Ambient Humidity and Atmosphere and with Direct Solar Illumination. ACS Applied Energy Materials, 2019, 2, 2214-2222.	5.1	28
8	Organolead halide perovskites beyond solar cells: self-powered devices and the associated progress and challenges. Materials Advances, 2021, 2, 5274-5299.	5.4	25
9	Polymer-Controlled Growth and Wrapping of Perovskite Single Crystals Leading to Better Device Stability and Performance. ACS Applied Materials & Interfaces, 2020, 12, 25011-25019.	8.0	23
10	Nanoscale Architecture of Polymer-Organolead Halide Perovskite Films and the Effect of Polymer Chain Mobility on Device Performance. Journal of Physical Chemistry Letters, 2021, 12, 1481-1489.	4.6	20
11	Soft Polymer-Organolead Halide Perovskite Films for Highly Stretchable and Durable Photodetectors with Pt-Au Nanochain-Based Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 58956-58965.	8.0	14
12	Bio-inspired interlocking random 3-D structures for tactile and thermal sensing. Scientific Reports, 2017, 7, 5834.	3.3	12
13	Porous perovskite films integrated with Au-Pt nanowire-based electrodes for highly flexible large-area photodetectors. Npj Flexible Electronics, 2020, 4, .	10.7	12
14	Controlled Element Specific Nanoscale Domains by Self-Assembly for High Performance Bifunctional Alkaline Water Splitting Catalyst. Advanced Functional Materials, 2021, 31, 2106149.	14.9	12
15	Modulation of mechanical properties and stable light energy harvesting by poling in polymer integrated perovskite films: a wide range, linear and highly sensitive tactile sensor. Journal of Materials Chemistry A, 2019, 7, 14192-14198.	10.3	11
16	Wearable Devices Using Nanoparticle Chains as Universal Building Blocks with Simple Filtration-Based Fabrication and Quantum Sensing. Advanced Materials Technologies, 2020, 5, 2000090.	5.8	8
17	Nanoparticle chains as electrochemical sensors and electrodes. Analytical and Bioanalytical Chemistry, 2016, 408, 2697-2705.	3.7	7
18	Carbon monoxide induced self-doping in methylammonium lead iodide films and associated long-term degradation effects. Journal of Materials Chemistry C, 0, , .	5.5	6

#	ARTICLE	IF	CITATIONS
19	Electrochemical synthesis on single cells as templates. <i>Chemical Communications</i> , 2013, 49, 8641.	4.1	5
20	Electrochemical Synthesis on Nanoparticle Chains to Couple Semiconducting Rods: Coulomb Blockade Modulation Using Photoexcitation. <i>Advanced Materials</i> , 2014, 26, 6491-6496.	21.0	5
21	Formation of microns long thin wire networks with a controlled spatial distribution of elements. <i>Catalysis Science and Technology</i> , 2020, 10, 2020-2028.	4.1	4
22	Intrinsic-polarization origin of photoconductivity in MAPbI ₃ thin films. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	4
23	Magnetic nano-nets for capture of microbes in solution based on physical contact. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 33-40.	9.4	3
24	Perovskites for tactile sensors. , 2021, , 141-158.		1
25	Nanoparticle Chain based Materials for Shielding and Flexible Devices. , 2022, , .		0