Endre HorvÃ¡th

List of Publications by Year
in descending order

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63	2,706	236925	182427
papers	citations	25 h-index	51 g-index

64	64	64	4660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultra-Low Thermal Conductivity in Organicâ€“Inorganic Hybrid Perovskite CH₃NH₃PbI₃. Journal of Physical Chemistry Letters, 2014, 5, 2488-2492.	4.6	416
2	Nanowires of Methylammonium Lead Iodide (CH₃NH₃PbI₃) Prepared by Low Temperature Solution-Mediated Crystallization. Nano Letters, 2014, 14, 6761-6766.	9.1	257
3	Photosensitization of ion-exchangeable titanate nanotubes by CdS nanoparticles. Chemical Physics Letters, 2004, 399, 512-515.	2.6	175
4	Oriented Crystal Growth Model Explains the Formation of Titania Nanotubes. Journal of Physical Chemistry B, 2005, 109, 17781-17783.	2.6	159
5	Hydrothermal Conversion of Self-Assembled Titanate Nanotubes into Nanowires in a Revolving Autoclave. Chemistry of Materials, 2007, 19, 927-931.	6.7	154
6	Microengineered CH₃NH₃PbI₃ Nanowire/Graphene Phototransistor for Lowâ€Intensity Light Detection at Room Temperature. Small, 2015, 11, 4824-4828.	10.0	151
7	Tuning of the Thermoelectric Figure of Merit of CH₃NH₃MI₃ (Mâ•Pb,Sn) Photovoltaic Perovskites. Journal of Physical Chemistry C, 2015, 119, 11506-11510.	3.1	145
8	Health hazards of methylammonium lead iodide based perovskites: cytotoxicity studies. Toxicology Research, 2016, 5, 407-419.	2.1	113
9	High-Efficiency Solid-State Dye-Sensitized Solar Cells: Fast Charge Extraction through Self-Assembled 3D Fibrous Network of Crystalline TiO₂ Nanowires. ACS Nano, 2010, 4, 7644-7650.	14.6	105
10	Controlled growth of CH3NH3PbI3 nanowires in arrays of open nanofluidic channels. Scientific Reports, 2016, 6, 19834.	3.3	81
11	Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. ACS Nano, 2021, 15, 4077-4084.	14.6	71
12	Photocatalytic Nanowiresâ€Based Air Filter: Towards Reusable Protective Masks. Advanced Functional Materials, 2020, 30, 2004615.	14.9	65
13	Methylammonium Lead Iodide for Efficient X-ray Energy Conversion. Journal of Physical Chemistry C, 2015, 119, 25204-25208.	3.1	61
14	Striking Influence of the Catalyst Support and Its Acidâ€“Base Properties: New Insight into the Growth Mechanism of Carbon Nanotubes. ACS Nano, 2011, 5, 3428-3437.	14.6	54
15	Light-Emitting Electrochemical Cells of Single Crystal Hybrid Halide Perovskite with Vertically Aligned Carbon Nanotubes Contacts. ACS Photonics, 2019, 6, 967-975.	6.6	49
16	Mechanical signatures of degradation of the photovoltaic perovskite CH3NH3PbI3 upon water vapor exposure. Applied Physics Letters, 2017, 110, .	3.3	38
17	CH₃NH₃PbI₃: precise structural consequences of water absorption at ambient conditions. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 716-722.	1.1	37
18	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. Journal of Physical Chemistry C, 2013, 117, 697-702.	3.1	36

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19	Three-Dimensionally Enlarged Photoelectrodes by a Protogenetic Inclusion of Vertically Aligned Carbon Nanotubes into CH₃NH₃PbBr₃ Single Crystals. Journal of Physical Chemistry C, 2017, 121, 13549-13556.	3.1	31
20	Mahan excitons in room-temperature methylammonium lead bromide perovskites. Nature Communications, 2020, 11, 850.	12.8	31
21	Dye metachromasy on titanate nanowires: sensing humidity with reversible molecular dimerization. Journal of Materials Chemistry, 2012, 22, 8778.	6.7	30
22	Fighting Health Hazards in Lead Halide Perovskite Optoelectronic Devices with Transparent Phosphate Salts. ACS Applied Materials & Interfaces, 2021, 13, 33995-34002.	8.0	30
23	Probing titanate nanowire surface acidity through methylene blue adsorption in colloidal suspension and on thin films. Journal of Colloid and Interface Science, 2014, 416, 190-197.	9.4	27
24	Influence of synthesis parameters on CCVD growth of vertically aligned carbon nanotubes over aluminum substrate. Scientific Reports, 2017, 7, 9557.	3.3	27
25	Clean, cleaved surfaces of the photovoltaic perovskite. Scientific Reports, 2017, 7, 695.	3.3	27
26	Tuning the Aggregation of Titanate Nanowires in Aqueous Dispersions. Langmuir, 2015, 31, 42-49.	3.5	25
27	Kilogramâ€Scale Crystallogenesis of Halide Perovskites for Gammaâ€Rays Dose Rate Measurements. Advanced Science, 2021, 8, 2001882.	11.2	21
28	Challenges and rewards of the electrosynthesis of macroscopic aligned carbon nanotube array/conducting polymer hybrid assemblies. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1507-1518.	2.1	20
29	Radiation detection and energy conversion in nuclear reactor environments by hybrid photovoltaic perovskites. Energy Conversion and Management, 2020, 205, 112423.	9.2	18
30	Dendrimer-Stabilized Titanate Nanowire Dispersions as Potential Nanocarriers. Journal of Physical Chemistry C, 2015, 119, 24919-24926.	3.1	17
31	Morphology and Photoluminescence of CH3NH3PbI3 Deposits on Nonplanar, Strongly Curved Substrates. ACS Photonics, 2018, 5, 1476-1485.	6.6	16
32	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. ChemPlusChem, 2014, 79, 592-600.	2.8	15
33	Tuning ferromagnetism at room temperature by visible light. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6417-6423.	7.1	15
34	Sensing hydrogen peroxide by carbon nanotube/horseradish peroxidase bio-nanocomposite. Physica Status Solidi (B): Basic Research, 2013, 250, 2559-2563.	1.5	14
35	Influence of Protamine Functionalization on the Colloidal Stability of 1D and 2D Titanium Oxide Nanostructures. Langmuir, 2017, 33, 9750-9758.	3.5	12
36	Long term stabilization of reaction center protein photochemistry by carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2454-2457.	1.5	11

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37	Carbon nanotubes quench singlet oxygen generated by photosynthetic reaction centers. Physica Status Solidi (B): Basic Research, 2013, 250, 2539-2543.	1.5	11
38	Differential Response of the Photoluminescence and Photocurrent of Polycrystalline CH₃NH₃PbI₃ and CH₃NH₃PbBr₃ to the Exposure to Oxygen and Nitrogen. ACS Applied Electronic Materials, 2019, 1, 2007-2017.	4.3	11
39	Photodiode Response in a CH₃NH₃PbI₃/CH₃NH₃SnI₃ Heterojunction. ACS Applied Materials & Interfaces, 2017, 9, 10198-10202.	8.0	10
40	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. Catalysis Today, 2017, 284, 52-58.	4.4	10
41	Hybrid halide perovskite neutron detectors. Scientific Reports, 2021, 11, 17159.	3.3	10
42	Generating photocurrent by nanocomposites based on photosynthetic reaction centre protein. Physica Status Solidi (B): Basic Research, 2015, 252, 2614-2619.	1.5	9
43	Competitive ion-exchange of manganese and gadolinium in titanate nanotubes. Catalysis Today, 2017, 284, 146-152.	4.4	9
44	Growth of CNT Forests on Titanium Based Layers, Detailed Study of Catalysts. Frontiers in Chemistry, 2018, 6, 593.	3.6	9
45	Fine tuning the coverage of a titanate nanowire layer on a glass substrate. Chemical Physics Letters, 2008, 460, 191-195.	2.6	7
46	Optical detection of charge dynamics in CH₃NH₃PbI₃/carbon nanotube composites. Nanoscale, 2017, 9, 17781-17787.	5.6	7
47	Effect of Thermal Cycling on the Structural Evolution of Methylammonium Lead Iodide Monitored around the Phase Transition Temperatures. Solar Rrl, 2019, 3, 1900044.	5.8	7
48	Chemical challenges during the synthesis of MWCNTâ€based inorganic nanocomposite materials. Physica Status Solidi (B): Basic Research, 2014, 251, 2360-2365.	1.5	6
49	Infrared and 2-Dimensional Correlation Spectroscopy Study of the Effect of CH3NH3PbI3 and CH3NH3SnI3 Photovoltaic Perovskites on Eukaryotic Cells. Molecules, 2020, 25, 336.	3.8	6
50	The effect of titania precursor on the morphology of prepared TiO₂/MWCNT nanocomposite materials. Physica Status Solidi (B): Basic Research, 2014, 251, 2384-2388.	1.5	5
51	Rapid thickness reading of CH₃NH₃PbI₃ nanowire thin films from color maps. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2017-2023.	1.8	5
52	Dry-pressed anodized titania nanotube/CH3NH3PbI3 single crystal heterojunctions: The beneficial role of N doping. Ceramics International, 2019, 45, 10013-10020.	4.8	5
53	Photosynthetic reaction centre/carbon nanotube bundle composites. Physica Status Solidi (B): Basic Research, 2014, 251, 2366-2371.	1.5	4
54	Pressure-induced transformation of CH₃NH₃PbI₃: the role of the noble-gas pressure transmitting media. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 361-370.	1.1	4

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55	Equilibrium concentration of singlet oxygen in photoreaction of reaction center/carbon nanotube bionanocomposites. Physica Status Solidi (B): Basic Research, 2015, 252, 2479-2484.	1.5	3
56	Superior Water Sheeting Effect on Photocatalytic Titania Nanowire Coated Glass. Langmuir, 2017, 33, 9043-9049.	3.5	3
57	Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, NH₃CH₂CH₂NH₃PbI₄. CrystEngComm, 2018, 20, 3543-3549.	2.6	3
58	Fast Lead-Free Humidity Sensor Based on Hybrid Halide Perovskite. Crystals, 2022, 12, 547.	2.2	3
59	Light-induced charge transfer at the CH₃NH₃PbI₃/TiO₂ interfaceâ€”a low-temperature photo-electron paramagnetic resonance assay. JPhys Photonics, 2020, 2, 014007.	4.6	2
60	Photodetectors: Microengineered CH₃NH₃PbI₃ Nanowire/Graphene Phototransistor for Lowâ€Intensity Light Detection at Room Temperature (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	13.3	1
61	Electron Microscopy Investigation of Coated Multiwall Carbon Nanotubes Prepared by Reactive Ball Milling. Journal of Nanoscience and Nanotechnology, 2019, 19, 502-508.	0.9	1
62	Reversible wavelength-dependent photo-bleaching in free-standing polycrystalline films of MAPbI3 monitored under the intense visible light flux. , 0, , .		0
63	USING COMMUNITY LEVEL DATA-BASED DECISION MAKING IN GENERAL EDUCATION: FIRST PHASE OF A 5-YEAR PROGRAM. , 2021, , .		0