

Endre Horváth

List of Publications by Year in descending order

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63
papers

2,706
citations

236612

25
h-index

182168

51
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64
all docs

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docs citations

64
times ranked

4660
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-Low Thermal Conductivity in Organic-Inorganic Hybrid Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2488-2492.	2.1	416
2	Nanowires of Methylammonium Lead Iodide ($\text{CH}_3\text{NH}_3\text{PbI}_3$) Prepared by Low Temperature Solution-Mediated Crystallization. <i>Nano Letters</i> , 2014, 14, 6761-6766.	4.5	257
3	Photosensitization of ion-exchangeable titanate nanotubes by CdS nanoparticles. <i>Chemical Physics Letters</i> , 2004, 399, 512-515.	1.2	175
4	Oriented Crystal Growth Model Explains the Formation of Titania Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17781-17783.	1.2	159
5	Hydrothermal Conversion of Self-Assembled Titanate Nanotubes into Nanowires in a Revolving Autoclave. <i>Chemistry of Materials</i> , 2007, 19, 927-931.	3.2	154
6	Microengineered $\text{CH}_3\text{NH}_3\text{PbI}_3$ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature. <i>Small</i> , 2015, 11, 4824-4828.	5.2	151
7	Tuning of the Thermoelectric Figure of Merit of $\text{CH}_3\text{NH}_3\text{MlI}_3$ (M=Pb,Sn) Photovoltaic Perovskites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11506-11510.	1.5	145
8	Health hazards of methylammonium lead iodide based perovskites: cytotoxicity studies. <i>Toxicology Research</i> , 2016, 5, 407-419.	0.9	113
9	High-Efficiency Solid-State Dye-Sensitized Solar Cells: Fast Charge Extraction through Self-Assembled 3D Fibrous Network of Crystalline TiO_2 Nanowires. <i>ACS Nano</i> , 2010, 4, 7644-7650.	7.3	105
10	Controlled growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$ nanowires in arrays of open nanofluidic channels. <i>Scientific Reports</i> , 2016, 6, 19834.	1.6	81
11	Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. <i>ACS Nano</i> , 2021, 15, 4077-4084.	7.3	71
12	Photocatalytic Nanowires-Based Air Filter: Towards Reusable Protective Masks. <i>Advanced Functional Materials</i> , 2020, 30, 2004615.	7.8	65
13	Methylammonium Lead Iodide for Efficient X-ray Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25204-25208.	1.5	61
14	Striking Influence of the Catalyst Support and Its Acid-Base Properties: New Insight into the Growth Mechanism of Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 3428-3437.	7.3	54
15	Light-Emitting Electrochemical Cells of Single Crystal Hybrid Halide Perovskite with Vertically Aligned Carbon Nanotubes Contacts. <i>ACS Photonics</i> , 2019, 6, 967-975.	3.2	49
16	Mechanical signatures of degradation of the photovoltaic perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ upon water vapor exposure. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	38
17	$\text{CH}_3\text{NH}_3\text{PbI}_3$: precise structural consequences of water absorption at ambient conditions. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 716-722.	0.5	37
18	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 697-702.	1.5	36

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19	Three-Dimensionally Enlarged Photoelectrodes by a Protogenetic Inclusion of Vertically Aligned Carbon Nanotubes into $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13549-13556.	1.5	31
20	Mahan excitons in room-temperature methylammonium lead bromide perovskites. <i>Nature Communications</i> , 2020, 11, 850.	5.8	31
21	Dye metachromasy on titanate nanowires: sensing humidity with reversible molecular dimerization. <i>Journal of Materials Chemistry</i> , 2012, 22, 8778.	6.7	30
22	Fighting Health Hazards in Lead Halide Perovskite Optoelectronic Devices with Transparent Phosphate Salts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33995-34002.	4.0	30
23	Probing titanate nanowire surface acidity through methylene blue adsorption in colloidal suspension and on thin films. <i>Journal of Colloid and Interface Science</i> , 2014, 416, 190-197.	5.0	27
24	Influence of synthesis parameters on CCVD growth of vertically aligned carbon nanotubes over aluminum substrate. <i>Scientific Reports</i> , 2017, 7, 9557.	1.6	27
25	Clean, cleaved surfaces of the photovoltaic perovskite. <i>Scientific Reports</i> , 2017, 7, 695.	1.6	27
26	Tuning the Aggregation of Titanate Nanowires in Aqueous Dispersions. <i>Langmuir</i> , 2015, 31, 42-49.	1.6	25
27	Kilogram-scale Crystallography of Halide Perovskites for Gamma Rays Dose Rate Measurements. <i>Advanced Science</i> , 2021, 8, 2001882.	5.6	21
28	Challenges and rewards of the electrosynthesis of macroscopic aligned carbon nanotube array/conducting polymer hybrid assemblies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1507-1518.	2.4	20
29	Radiation detection and energy conversion in nuclear reactor environments by hybrid photovoltaic perovskites. <i>Energy Conversion and Management</i> , 2020, 205, 112423.	4.4	18
30	Dendrimer-Stabilized Titanate Nanowire Dispersions as Potential Nanocarriers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24919-24926.	1.5	17
31	Morphology and Photoluminescence of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Deposits on Nonplanar, Strongly Curved Substrates. <i>ACS Photonics</i> , 2018, 5, 1476-1485.	3.2	16
32	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. <i>ChemPlusChem</i> , 2014, 79, 592-600.	1.3	15
33	Tuning ferromagnetism at room temperature by visible light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6417-6423.	3.3	15
34	Sensing hydrogen peroxide by carbon nanotube/horseradish peroxidase bio-nanocomposite. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2559-2563.	0.7	14
35	Influence of Protamine Functionalization on the Colloidal Stability of 1D and 2D Titanium Oxide Nanostructures. <i>Langmuir</i> , 2017, 33, 9750-9758.	1.6	12
36	Long term stabilization of reaction center protein photochemistry by carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2454-2457.	0.7	11

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37	Carbon nanotubes quench singlet oxygen generated by photosynthetic reaction centers. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2539-2543.	0.7	11
38	Differential Response of the Photoluminescence and Photocurrent of Polycrystalline $\text{CH}_3\text{NH}_3\text{PbI}_3$ and $\text{CH}_3\text{NH}_3\text{PbBr}_3$ to the Exposure to Oxygen and Nitrogen. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2007-2017.	2.0	11
39	Photodiode Response in a $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{CH}_3\text{NH}_3\text{SnI}_3$ Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10198-10202.	4.0	10
40	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. <i>Catalysis Today</i> , 2017, 284, 52-58.	2.2	10
41	Hybrid halide perovskite neutron detectors. <i>Scientific Reports</i> , 2021, 11, 17159.	1.6	10
42	Generating photocurrent by nanocomposites based on photosynthetic reaction centre protein. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2614-2619.	0.7	9
43	Competitive ion-exchange of manganese and gadolinium in titanate nanotubes. <i>Catalysis Today</i> , 2017, 284, 146-152.	2.2	9
44	Growth of CNT Forests on Titanium Based Layers, Detailed Study of Catalysts. <i>Frontiers in Chemistry</i> , 2018, 6, 593.	1.8	9
45	Fine tuning the coverage of a titanate nanowire layer on a glass substrate. <i>Chemical Physics Letters</i> , 2008, 460, 191-195.	1.2	7
46	Optical detection of charge dynamics in $\text{CH}_3\text{NH}_3\text{PbI}_3$ /carbon nanotube composites. <i>Nanoscale</i> , 2017, 9, 17781-17787.	2.8	7
47	Effect of Thermal Cycling on the Structural Evolution of Methylammonium Lead Iodide Monitored around the Phase Transition Temperatures. <i>Solar Rrl</i> , 2019, 3, 1900044.	3.1	7
48	Chemical challenges during the synthesis of MWCNT-based inorganic nanocomposite materials. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2360-2365.	0.7	6
49	Infrared and 2-Dimensional Correlation Spectroscopy Study of the Effect of $\text{CH}_3\text{NH}_3\text{PbI}_3$ and $\text{CH}_3\text{NH}_3\text{SnI}_3$ Photovoltaic Perovskites on Eukaryotic Cells. <i>Molecules</i> , 2020, 25, 336.	1.7	6
50	The effect of titania precursor on the morphology of prepared TiO_2 /MWCNT nanocomposite materials. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2384-2388.	0.7	5
51	Rapid thickness reading of $\text{CH}_3\text{NH}_3\text{PbI}_3$ nanowire thin films from color maps. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2017-2023.	0.8	5
52	Dry-pressed anodized titania nanotube/ $\text{CH}_3\text{NH}_3\text{PbI}_3$ single crystal heterojunctions: The beneficial role of N doping. <i>Ceramics International</i> , 2019, 45, 10013-10020.	2.3	5
53	Photosynthetic reaction centre/carbon nanotube bundle composites. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2366-2371.	0.7	4
54	Pressure-induced transformation of $\text{CH}_3\text{NH}_3\text{PbI}_3$: the role of the noble-gas pressure transmitting media. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 361-370.	0.5	4

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55	Equilibrium concentration of singlet oxygen in photoreaction of reaction center/carbon nanotube bionanocomposites. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2479-2484.	0.7	3
56	Superior Water Sheeting Effect on Photocatalytic Titania Nanowire Coated Glass. <i>Langmuir</i> , 2017, 33, 9043-9049.	1.6	3
57	Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, $\text{NH}_3\text{CH}_2\text{CH}_2\text{NH}_3\text{PbI}_4$. <i>CrystEngComm</i> , 2018, 20, 3543-3549.	1.3	3
58	Fast Lead-Free Humidity Sensor Based on Hybrid Halide Perovskite. <i>Crystals</i> , 2022, 12, 547.	1.0	3
59	Light-induced charge transfer at the $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{TiO}_2$ interface—a low-temperature photo-electron paramagnetic resonance assay. <i>JPhys Photonics</i> , 2020, 2, 014007.	2.2	2
60	Photodetectors: Microengineered $\text{CH}_3\text{NH}_3\text{PbI}_3$ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature (Small) <i>Tj ETQq0 0 CsgBT /Overlock 10 TF</i>		
61	Electron Microscopy Investigation of Coated Multiwall Carbon Nanotubes Prepared by Reactive Ball Milling. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 502-508.	0.9	1
62	Reversible wavelength-dependent photo-bleaching in free-standing polycrystalline films of MAPbI_3 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