Endre Horvth

List of Publications by Year in Descending Order

61 papers	2,221 citations	22 h-index	46 g-index
64 ext. papers	2,456 ext. citations	5.7 avg, IF	4.81 L-index

#	Paper	IF	Citations
61	Fast Lead-Free Humidity Sensor Based on Hybrid Halide Perovskite. *Crystals*, **2022**, 12, 547	2.3	1
60	Fighting Health Hazards in Lead Halide Perovskite Optoelectronic Devices with Transparent Phosphate Salts. *ACS Applied Materials & Interfaces*, **2021**, 13, 33995-34002	9.5	11
59	Kilogram-Scale Crystallogenesis of Halide Perovskites for Gamma-Rays Dose Rate Measurements. *Advanced Science*, **2021**, 8, 2001882	13.6	13
58	Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. *ACS Nano*, **2021**, 15, 4077-4084	16.7	17
57	Hybrid halide perovskite neutron detectors. *Scientific Reports*, **2021**, 11, 17159	4.9	2
56	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	11.5	8
55	Light-induced charge transfer at the CH3NH3PbI3/TiO2 interface□ low-temperature photo-electron paramagnetic resonance assay. *JPhys Photonics*, **2020**, 2, 014007	2.5	1
54	Mahan excitons in room-temperature methylammonium lead bromide perovskites. *Nature Communications*, **2020**, 11, 850	17.4	15
53	Infrared and 2-Dimensional Correlation Spectroscopy Study of the Effect of CHNHPbI and CHNHSnI Photovoltaic Perovskites on Eukaryotic Cells. *Molecules*, **2020**, 25,	4.8	3
52	Radiation detection and energy conversion in nuclear reactor environments by hybrid photovoltaic perovskites. *Energy Conversion and Management*, **2020**, 205, 112423	10.6	9
51	Photocatalytic Nanowires-Based Air Filter: Towards Reusable Protective Masks. *Advanced Functional Materials*, **2020**, 30, 2004615	15.6	36
50	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	6
49	Electron Microscopy Investigation of Coated Multiwall Carbon Nanotubes Prepared by Reactive Ball Milling. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 502-508	1.3	
48	Pressure-induced transformation of CHNHPbI: the role of the noble-gas pressure transmitting media. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2019**, 75, 361-370	1.8	2
47	Effect of Thermal Cycling on the Structural Evolution of Methylammonium Lead Iodide Monitored around the Phase Transition Temperatures. *Solar Rrl*, **2019**, 3, 1900044	7.1	6
46	Light-Emitting Electrochemical Cells of Single Crystal Hybrid Halide Perovskite with Vertically Aligned Carbon Nanotubes Contacts. *ACS Photonics*, **2019**, 6, 967-975	6.3	37
45	Dry-pressed anodized titania nanotube/CH3NH3PbI3 single crystal heterojunctions: The beneficial role of N doping. *Ceramics International*, **2019**, 45, 10013-10020	5.1	5

44	Morphology and Photoluminescence of CH3NH3PbI3 Deposits on Nonplanar, Strongly Curved Substrates. *ACS Photonics*, **2018**, 5, 1476-1485	6.3	10
43	Growth of CNT Forests on Titanium Based Layers, Detailed Study of Catalysts. *Frontiers in Chemistry* , **2018**, 6, 593	5	6
42	Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, NH3CH2CH2NH3PbI4. *CrystEngComm*, **2018**, 20, 3543-3549	3.3	3
41	Photodiode Response in a CHNHPbI/CHNHSnI Heterojunction. *ACS Applied Materials & Interfaces*, **2017**, 9, 10198-10202	9.5	6
40	Competitive ion-exchange of manganese and gadolinium in titanate nanotubes. *Catalysis Today*, **2017**, 284, 146-152	5.3	9
39	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	3.8	25
38	Mechanical signatures of degradation of the photovoltaic perovskite CH3NH3PbI3 upon water vapor exposure. *Applied Physics Letters*, **2017**, 110, 121903	3.4	32
37	Optical detection of charge dynamics in CHNHPbI/carbon nanotube composites. *Nanoscale*, **2017**, 9, 17781-17787	7.7	3
36	Influence of Protamine Functionalization on the Colloidal Stability of 1D and 2D Titanium Oxide Nanostructures. *Langmuir*, **2017**, 33, 9750-9758	4	11
35	Influence of synthesis parameters on CCVD growth of vertically aligned carbon nanotubes over aluminum substrate. *Scientific Reports*, **2017**, 7, 9557	4.9	21
34	Clean, cleaved surfaces of the photovoltaic perovskite. *Scientific Reports*, **2017**, 7, 695	4.9	24
33	Superior Water Sheeting Effect on Photocatalytic Titania Nanowire Coated Glass. *Langmuir*, **2017**, 33, 9043-9049	4	3
32	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. *Catalysis Today*, **2017**, 284, 52-58	5.3	10
31	CHNHPbI: precise structural consequences of water absorption at ambient conditions. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2016**, 72, 716-722	1.8	28
30	Controlled growth of CH3NH3PbI3 nanowires in arrays of open nanofluidic channels. *Scientific Reports*, **2016**, 6, 19834	4.9	75
29	Health hazards of methylammonium lead iodide based perovskites: cytotoxicity studies. *Toxicology Research*, **2016**, 5, 407-419	2.6	82
28	Rapid thickness reading of CH3NH3PbI3 nanowire thin films from color maps. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 2017-2023	1.6	5
27	Tuning of the Thermoelectric Figure of Merit of CH3NH3MI3 (M?Pb,Sn) Photovoltaic Perovskites. *Journal of Physical Chemistry C*, **2015**, 119, 11506-11510	3.8	121

26	Dendrimer-Stabilized Titanate Nanowire Dispersions as Potential Nanocarriers. *Journal of Physical Chemistry C*, **2015**, 119, 24919-24926	3.8	16
25	Methylammonium Lead Iodide for Efficient X-ray Energy Conversion. *Journal of Physical Chemistry C* , **2015**, 119, 25204-25208	3.8	50
24	Photodetectors: Microengineered CH3NH3PbI3 Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature (Small 37/2015). *Small*, **2015**, 11, 4823-4823	11	1
23	Equilibrium concentration of singlet oxygen in photoreaction of reaction center/carbon nanotube bionanocomposites. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 2479-2484	1.3	3
22	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	2.6	18
21	Generating photocurrent by nanocomposites based on photosynthetic reaction centre protein. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 2614-2619	1.3	7
20	Microengineered CH3NH3PbI3 Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature. *Small*, **2015**, 11, 4824-8	11	135
19	Tuning the aggregation of titanate nanowires in aqueous dispersions. *Langmuir*, **2015**, 31, 42-9	4	24
18	Probing titanate nanowire surface acidity through methylene blue adsorption in colloidal suspension and on thin films. *Journal of Colloid and Interface Science*, **2014**, 416, 190-7	9.3	27
17	Nanowires of methylammonium lead iodide (CH3NH3PbI3) prepared by low temperature solution-mediated crystallization. *Nano Letters*, **2014**, 14, 6761-6	11.5	221
16	Ultra-Low Thermal Conductivity in Organic-Inorganic Hybrid Perovskite CH3NH3PbI3. *Journal of Physical Chemistry Letters*, **2014**, 5, 2488-92	6.4	337
15	Photosynthetic reaction centre/carbon nanotube bundle composites. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 2366-2371	1.3	3
14	The effect of titania precursor on the morphology of prepared TiO2/MWCNT nanocomposite materials. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 2384-2388	1.3	4
13	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. *ChemPlusChem*, **2014**, 79, 592-600	2.8	15
12	Chemical challenges during the synthesis of MWCNT-based inorganic nanocomposite materials. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 2360-2365	1.3	6
11	Carbon nanotubes quench singlet oxygen generated by photosynthetic reaction centers. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2539-2543	1.3	10
10	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. *Journal of Physical Chemistry C*, **2013**, 117, 697-702	3.8	34
9	Sensing hydrogen peroxide by carbon nanotube/horseradish peroxidase bio-nanocomposite. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2559-2563	1.3	12

8	Dye metachromasy on titanate nanowires: sensing humidity with reversible molecular dimerization. *Journal of Materials Chemistry*, **2012**, 22, 8778		29
7	Striking influence of the catalyst support and its acid-base properties: new insight into the growth mechanism of carbon nanotubes. *ACS Nano*, **2011**, 5, 3428-37	16.7	48
6	Long term stabilization of reaction center protein photochemistry by carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2454-2457	1.3	7
5	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, 7644-50	16.7	99
4	Fine tuning the coverage of a titanate nanowire layer on a glass substrate. *Chemical Physics Letters*, **2008**, 460, 191-195	2.5	6
3	Hydrothermal Conversion of Self-Assembled Titanate Nanotubes into Nanowires in a Revolving Autoclave. *Chemistry of Materials*, **2007**, 19, 927-931	9.6	146
2	Oriented crystal growth model explains the formation of titania nanotubes. *Journal of Physical Chemistry B*, **2005**, 109, 17781-3	3.4	148
1	Photosensitization of ion-exchangeable titanate nanotubes by CdS nanoparticles. *Chemical Physics Letters*, **2004**, 399, 512-515	2.5	166