

Endre Horváth

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,706
citations

236925

25
h-index

182427

51
g-index

64
all docs

64
docs citations

64
times ranked

4660
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Fast Lead-Free Humidity Sensor Based on Hybrid Halide Perovskite. <i>Crystals</i> , 2022, 12, 547. | 2.2 | 3 |
| 2 | Kilogramâ€Scale Crystallogensis of Halide Perovskites for Gammaâ€Rays Dose Rate Measurements. <i>Advanced Science</i> , 2021, 8, 2001882. | 11.2 | 21 |
| 3 | Ultrasensitive 3D Aerosol-Jet-Printed Perovskite X-ray Photodetector. <i>ACS Nano</i> , 2021, 15, 4077-4084. | 14.6 | 71 |
| 4 | Fighting Health Hazards in Lead Halide Perovskite Optoelectronic Devices with Transparent Phosphate Salts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33995-34002. | 8.0 | 30 |
| 5 | Hybrid halide perovskite neutron detectors. <i>Scientific Reports</i> , 2021, 11, 17159. | 3.3 | 10 |
| 6 | USING COMMUNITY LEVEL DATA-BASED DECISION MAKING IN GENERAL EDUCATION: FIRST PHASE OF A 5-YEAR PROGRAM. , 2021, , . | | 0 |
| 7 | Radiation detection and energy conversion in nuclear reactor environments by hybrid photovoltaic perovskites. <i>Energy Conversion and Management</i> , 2020, 205, 112423. | 9.2 | 18 |
| 8 | Photocatalytic Nanowiresâ€Based Air Filter: Towards Reusable Protective Masks. <i>Advanced Functional Materials</i> , 2020, 30, 2004615. | 14.9 | 65 |
| 9 | 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. | 7.1 | 15 |
| 10 | Light-induced charge transfer at the CH ₃ NH ₃ PbI ₃ /TiO ₂ interfaceâ€a low-temperature photo-electron paramagnetic resonance assay. <i>JPhys Photonics</i> , 2020, 2, 014007. | 4.6 | 2 |
| 11 | Mahan excitons in room-temperature methylammonium lead bromide perovskites. <i>Nature Communications</i> , 2020, 11, 850. | 12.8 | 31 |
| 12 | Infrared and 2-Dimensional Correlation Spectroscopy Study of the Effect of CH ₃ NH ₃ PbI ₃ and CH ₃ NH ₃ SnI ₃ Photovoltaic Perovskites on Eukaryotic Cells. <i>Molecules</i> , 2020, 25, 336. | 3.8 | 6 |
| 13 | Differential Response of the Photoluminescence and Photocurrent of Polycrystalline CH ₃ NH ₃ PbI ₃ and CH ₃ NH ₃ PbBr ₃ to the Exposure to Oxygen and Nitrogen. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2007-2017. | 4.3 | 11 |
| 14 | 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 |
| 15 | Pressure-induced transformation of CH ₃ NH ₃ 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. | 1.1 | 4 |
| 16 | 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. | 5.8 | 7 |
| 17 | Light-Emitting Electrochemical Cells of Single Crystal Hybrid Halide Perovskite with Vertically Aligned Carbon Nanotubes Contacts. <i>ACS Photonics</i> , 2019, 6, 967-975. | 6.6 | 49 |
| 18 | Dry-pressed anodized titania nanotube/CH ₃ NH ₃ PbI ₃ single crystal heterojunctions: The beneficial role of N doping. <i>Ceramics International</i> , 2019, 45, 10013-10020. | 4.8 | 5 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Morphology and Photoluminescence of CH ₃ NH ₃ PbI ₃ Deposits on Nonplanar, Strongly Curved Substrates. ACS Photonics, 2018, 5, 1476-1485. | 6.6 | 16 |
| 20 | Growth of CNT Forests on Titanium Based Layers, Detailed Study of Catalysts. Frontiers in Chemistry, 2018, 6, 593. | 3.6 | 9 |
| 21 | Influence of the organic cation disorder on photoconductivity in ethylenediammonium lead iodide, NH ₃ ⁺ CH ₂ CH ₂ NH ₃ ⁺ PbI ₄ . CrystEngComm, 2018, 20, 3543-3549. | 2.6 | 3 |
| 22 | Photodiode Response in a CH ₃ NH ₃ PbI ₃ /CH ₃ NH ₃ SnI ₃ Heterojunction. ACS Applied Materials & Interfaces, 2017, 9, 10198-10202. | 8.0 | 10 |
| 23 | Competitive ion-exchange of manganese and gadolinium in titanate nanotubes. Catalysis Today, 2017, 284, 146-152. | 4.4 | 9 |
| 24 | Three-Dimensionally Enlarged Photoelectrodes by a Protogenetic Inclusion of Vertically Aligned Carbon Nanotubes into CH ₃ NH ₃ PbBr ₃ Single Crystals. Journal of Physical Chemistry C, 2017, 121, 13549-13556. | 3.1 | 31 |
| 25 | Mechanical signatures of degradation of the photovoltaic perovskite CH ₃ NH ₃ PbI ₃ upon water vapor exposure. Applied Physics Letters, 2017, 110, . | 3.3 | 38 |
| 26 | Optical detection of charge dynamics in CH ₃ NH ₃ PbI ₃ /carbon nanotube composites. Nanoscale, 2017, 9, 17781-17787. | 5.6 | 7 |
| 27 | Influence of Protamine Functionalization on the Colloidal Stability of 1D and 2D Titanium Oxide Nanostructures. Langmuir, 2017, 33, 9750-9758. | 3.5 | 12 |
| 28 | Influence of synthesis parameters on CCVD growth of vertically aligned carbon nanotubes over aluminum substrate. Scientific Reports, 2017, 7, 9557. | 3.3 | 27 |
| 29 | Clean, cleaved surfaces of the photovoltaic perovskite. Scientific Reports, 2017, 7, 695. | 3.3 | 27 |
| 30 | Superior Water Sheeting Effect on Photocatalytic Titania Nanowire Coated Glass. Langmuir, 2017, 33, 9043-9049. | 3.5 | 3 |
| 31 | Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. Catalysis Today, 2017, 284, 52-58. | 4.4 | 10 |
| 32 | Rapid thickness reading of CH ₃ NH ₃ PbI ₃ nanowire thin films from color maps. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2017-2023. | 1.8 | 5 |
| 33 | CH ₃ NH ₃ PbI ₃ : 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 |
| 34 | Controlled growth of CH ₃ NH ₃ PbI ₃ nanowires in arrays of open nanofluidic channels. Scientific Reports, 2016, 6, 19834. | 3.3 | 81 |
| 35 | Health hazards of methylammonium lead iodide based perovskites: cytotoxicity studies. Toxicology Research, 2016, 5, 407-419. | 2.1 | 113 |
| 36 | Photodetectors: Microengineered CH ₃ NH ₃ PbI ₃ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature (Small) Tj ETQq0 0 UugBT /Overlock 10 TF | | |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | 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. | 1.5 | 3 |
| 38 | 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. | 2.1 | 20 |
| 39 | Generating photocurrent by nanocomposites based on photosynthetic reaction centre protein. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2614-2619. | 1.5 | 9 |
| 40 | 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. | 10.0 | 151 |
| 41 | Tuning the Aggregation of Titanate Nanowires in Aqueous Dispersions. <i>Langmuir</i> , 2015, 31, 42-49. | 3.5 | 25 |
| 42 | Tuning of the Thermoelectric Figure of Merit of $\text{CH}_3\text{NH}_3\text{MnI}_3$ (M=Pb,Sn) Photovoltaic Perovskites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11506-11510. | 3.1 | 145 |
| 43 | Dendrimer-Stabilized Titanate Nanowire Dispersions as Potential Nanocarriers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24919-24926. | 3.1 | 17 |
| 44 | Methylammonium Lead Iodide for Efficient X-ray Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25204-25208. | 3.1 | 61 |
| 45 | 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. | 1.5 | 5 |
| 46 | Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. <i>ChemPlusChem</i> , 2014, 79, 592-600. | 2.8 | 15 |
| 47 | Chemical challenges during the synthesis of MWCNT-based inorganic nanocomposite materials. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2360-2365. | 1.5 | 6 |
| 48 | 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. | 9.4 | 27 |
| 49 | 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. | 9.1 | 257 |
| 50 | 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. | 4.6 | 416 |
| 51 | Photosynthetic reaction centre/carbon nanotube bundle composites. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2366-2371. | 1.5 | 4 |
| 52 | Carbon nanotubes quench singlet oxygen generated by photosynthetic reaction centers. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2539-2543. | 1.5 | 11 |
| 53 | Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 697-702. | 3.1 | 36 |
| 54 | Sensing hydrogen peroxide by carbon nanotube/horseradish peroxidase bio-nanocomposite. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2559-2563. | 1.5 | 14 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Dye metachromasy on titanate nanowires: sensing humidity with reversible molecular dimerization. <i>Journal of Materials Chemistry</i> , 2012, 22, 8778. | 6.7 | 30 |
| 56 | 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. | 14.6 | 54 |
| 57 | Long term stabilization of reaction center protein photochemistry by carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2454-2457. | 1.5 | 11 |
| 58 | 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. | 14.6 | 105 |
| 59 | Fine tuning the coverage of a titanate nanowire layer on a glass substrate. <i>Chemical Physics Letters</i> , 2008, 460, 191-195. | 2.6 | 7 |
| 60 | Hydrothermal Conversion of Self-Assembled Titanate Nanotubes into Nanowires in a Revolving Autoclave. <i>Chemistry of Materials</i> , 2007, 19, 927-931. | 6.7 | 154 |
| 61 | Oriented Crystal Growth Model Explains the Formation of Titania Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17781-17783. | 2.6 | 159 |
| 62 | Photosensitization of ion-exchangeable titanate nanotubes by CdS nanoparticles. <i>Chemical Physics Letters</i> , 2004, 399, 512-515. | 2.6 | 175 |
| 63 | Reversible wavelength-dependent photo-bleaching in free-standing polycrystalline films of MAPbI ₃ monitored under the intense visible light flux. , 0, , . | | 0 |