# Henk Bolink

## List of Publications by Year
## in descending order

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341
papers

23,948
citations

6592
79
h-index

9553
142
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347
all docs

347
docs citations

347
times ranked

19104
citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Perovskite solar cells employing organic charge-transport layers. Nature Photonics, 2014, 8, 128-132. | 15.6 | 1,320 |
| 2 | Nontemplate Synthesis of CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> Perovskite Nanoparticles. Journal of the American Chemical Society, 2014, 136, 850-853. | 6.6 | 1,128 |
| 3 | Luminescent Ionic Transitionâ€Metal Complexes for Lightâ€Emitting Electrochemical Cells. Angewandte Chemie - International Edition, 2012, 51, 8178-8211. | 7.2 | 857 |
| 4 | Recombination in Perovskite Solar Cells: Significance of Grain Boundaries, Interface Traps, and Defect Ions. ACS Energy Letters, 2017, 2, 1214-1222. | 8.8 | 826 |
| 5 | Trapâ€Assisted Nonâ€Radiative Recombination in Organicâ€"Inorganic Perovskite Solar Cells. Advanced Materials, 2015, 27, 1837-1841. | 11.1 | 684 |
| 6 | Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. Nature Photonics, 2021, 15, 148-155. | 15.6 | 590 |
| 7 | Advances in Perovskite Solar Cells. Advanced Science, 2016, 3, 1500324. | 5.6 | 482 |
| 8 | Efficient vacuum deposited p-i-n and n-i-p perovskite solar cells employing doped charge transport layers. Energy and Environmental Science, 2016, 9, 3456-3463. | 15.6 | 410 |
| 9 | Flexible high efficiency perovskite solar cells. Energy and Environmental Science, 2014, 7, 994. | 15.6 | 409 |
| 10 | Simultaneous determination of carrier lifetime and electron density-of-states in P3HT:PCBM organic solar cells under illumination by impedance spectroscopy. Solar Energy Materials and Solar Cells, 2010, 94, 366-375. | 3.0 | 326 |
| 11 | Radiative efficiency of lead iodide based perovskite solar cells. Scientific Reports, 2014, 4, 6071. | 1.6 | 283 |
| 12 | Vapor-Deposited Perovskites: The Route to High-Performance Solar Cell Production?. Joule, 2017, 1, 431-442. | 11.7 | 274 |
| 13 | Perovskite light-emitting diodes. Nature Electronics, 2022, 5, 203-216. | 13.1 | 268 |
| 14 | High efficiency single-junction semitransparent perovskite solar cells. Energy and Environmental Science, 2014, 7, 2968-2973. | 15.6 | 266 |
| 15 | Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. Joule, 2020, 4, 1035-1053. | 11.7 | 257 |
| 16 | Efficient Monolithic Perovskite/Perovskite Tandem Solar Cells. Advanced Energy Materials, 2017, 7, 1602121. | 10.2 | 255 |
| 17 | Hybrid Organicâ€"Inorganic Lightâ€Emitting Diodes. Advanced Materials, 2011, 23, 1829-1845. | 11.1 | 253 |
| 18 | Archetype Cationic Iridium Complexes and Their Use in Solidâ€State Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2009, 19, 3456-3463. | 7.8 | 239 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Light-emitting electrochemical cells: recent progress and future prospects. Materials Today, 2014, 17, 217-223. | 8.3 | 239 |
| 20 | Controlling Phosphorescence Color and Quantum Yields in Cationic Iridium Complexes:Â A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2007, 46, 5989-6001. | 1.9 | 237 |
| 21 | Synthesis, Characterization, and DFT/TD-DFT Calculations of Highly Phosphorescent Blue Light-Emitting Anionic Iridium Complexes. Inorganic Chemistry, 2008, 47, 980-989. | 1.9 | 222 |
| 22 | Stable Single-Layer Light-Emitting Electrochemical Cell Using 4,7-Diphenyl-1,10-phenanthroline-bis(2-phenylpyridine)iridium(III) Hexafluorophosphate. Journal of the American Chemical Society, 2006, 128, 14786-14787. | 6.6 | 191 |
| 23 | Longâ€Living Lightâ€Emitting Electrochemical Cells â€“ Control through Supramolecular Interactions. Advanced Materials, 2008, 20, 3910-3913. | 11.1 | 185 |
| 24 | Copper(i) complexes for sustainable light-emitting electrochemical cells. Journal of Materials Chemistry, 2011, 21, 16108. | 6.7 | 184 |
| 25 | Efficient Polymer Lightâ€Emitting Diode Using Airâ€Stable Metal Oxides as Electrodes. Advanced Materials, 2009, 21, 79-82. | 11.1 | 172 |
| 26 | Near-Quantitative Internal Quantum Efficiency in a Light-Emitting Electrochemical Cell. Inorganic Chemistry, 2008, 47, 9149-9151. | 1.9 | 169 |
| 27 | Negative capacitance caused by electron injection through interfacial states in organic light-emitting diodes. Chemical Physics Letters, 2006, 422, 184-191. | 1.2 | 168 |
| 28 | Origin of the large spectral shift in electroluminescence in a blue light emitting cationic iridium(iii) complex. Journal of Materials Chemistry, 2007, 17, 5032. | 6.7 | 166 |
| 29 | Operating Modes of Sandwiched Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2011, 21, 1581-1586. | 7.8 | 164 |
| 30 | Metalâ€Oxideâ€Free Methylammonium Lead Iodide Perovskiteâ€Based Solar Cells: the Influence of Organic Charge Transport Layers. Advanced Energy Materials, 2014, 4, 1400345. | 10.2 | 164 |
| 31 | Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. Advanced Functional Materials, 2008, 18, 145-150. | 7.8 | 158 |
| 32 | Strontium Insertion in Methylammonium Lead Iodide: Long Charge Carrier Lifetime and High Fillâ€Factor Solar Cells. Advanced Materials, 2016, 28, 9839-9845. | 11.1 | 150 |
| 33 | Air stable hybrid organic-inorganic light emitting diodes using ZnO as the cathode. Applied Physics Letters, 2007, 91, 223501. | 1.5 | 148 |
| 34 | Simple, Fast, Bright, and Stable Light Sources. Advanced Materials, 2012, 24, 897-900. | 11.1 | 148 |
| 35 | Delayed Luminescence in Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 13381-13390. | 1.5 | 148 |
| 36 | Efficient and Longâ€Living Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2010, 20, 1511-1520. | 7.8 | 147 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Vacuum Deposited Tripleâ€Cation Mixedâ€Halide Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1703506. | 10.2 | 147 |
| 38 | Influence of the Intermediate Density-of-States Occupancy on Open-Circuit Voltage of Bulk Heterojunction Solar Cells with Different Fullerene Acceptors. Journal of Physical Chemistry Letters, 2010, 1, 2566-2571. | 2.1 | 140 |
| 39 | A Supramolecularly-Caged Ionic Iridium(III) Complex Yielding Bright and Very Stable Solid-State Light-Emitting Electrochemical Cells. Journal of the American Chemical Society, 2008, 130, 14944-14945. | 6.6 | 138 |
| 40 | Ionâ€Selective Organic Electrochemical Transistors. Advanced Materials, 2014, 26, 4803-4807. | 11.1 | 136 |
| 41 | Advances in solution-processed near-infrared light-emitting diodes. Nature Photonics, 2021, 15, 656-669. | 15.6 | 136 |
| 42 | Self-assembled hierarchical nanostructured perovskites enable highly efficient LEDs <i>via</i> an energy cascade. Energy and Environmental Science, 2018, 11, 1770-1778. | 15.6 | 135 |
| 43 | Improving Perovskite Solar Cells: Insights From a Validated Device Model. Advanced Energy Materials, 2017, 7, 1602432. | 10.2 | 132 |
| 44 | Band unpinning and photovoltaic model for P3HT:PCBM organic bulk heterojunctions under illumination. Chemical Physics Letters, 2008, 465, 57-62. | 1.2 | 122 |
| 45 | Near-UV to red-emitting charged bis-cyclometallated iridium(<scp>iii</scp>) complexes for light-emitting electrochemical cells. Dalton Transactions, 2012, 41, 180-191. | 1.6 | 121 |
| 46 | Efficient methylammonium lead iodide perovskite solar cells with active layers from 300 to 900 nm. APL Materials, 2014, 2, . | 2.2 | 118 |
| 47 | Removing Leakage and Surface Recombination in Planar Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 424-430. | 8.8 | 117 |
| 48 | Intramolecular Ï€-Stacking in a Phenylpyrazole-Based Iridium Complex and Its Use in Light-Emitting Electrochemical Cells. Journal of the American Chemical Society, 2010, 132, 5978-5980. | 6.6 | 116 |
| 49 | Observation of Electroluminescence at Room Temperature from a Ruthenium(II) Bis-Terpyridine Complex and Its Use for Preparing Light-Emitting Electrochemical Cells. Inorganic Chemistry, 2005, 44, 5966-5968. | 1.9 | 114 |
| 50 | Efficient and Stable Solid-State Light-Emitting Electrochemical Cell Using Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) Hexafluorophosphate. Journal of the American Chemical Society, 2006, 128, 46-47. | 6.6 | 113 |
| 51 | Charged Bis-Cyclometalated Iridium(III) Complexes with Carbene-Based Ancillary Ligands. Inorganic Chemistry, 2013, 52, 10292-10305. | 1.9 | 110 |
| 52 | Light-Emitting Electrochemical Cells and Solution-Processed Organic Light-Emitting Diodes Using Small Molecule Organic Thermally Activated Delayed Fluorescence Emitters. Chemistry of Materials, 2015, 27, 6535-6542. | 3.2 | 110 |
| 53 | Efficient photovoltaic and electroluminescent perovskite devices. Chemical Communications, 2015, 51, 569-571. | 2.2 | 110 |
| 54 | Charge Transport Layers Limiting the Efficiency of Perovskite Solar Cells: How To Optimize Conductivity, Doping, and Thickness. ACS Applied Energy Materials, 2019, 2, 6280-6287. | 2.5 | 110 |

| # | Article | IF | Citations |
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| 55 | Origin of the Enhanced Photoluminescence Quantum Yield in MAPbBr<sub>3</sub> Perovskite with Reduced Crystal Size. ACS Energy Letters, 2018, 3, 1458-1466. | 8.8 | 106 |
| 56 | Efficient deep-red light-emitting electrochemical cells based on a perylenediimide-iridium-complex dyad. Chemical Communications, 2009, , 3886. | 2.2 | 103 |
| 57 | Quantification of spatial inhomogeneity in perovskite solar cells by hyperspectral luminescence imaging. Energy and Environmental Science, 2016, 9, 2286-2294. | 15.6 | 102 |
| 58 | Photophysical Properties of Charged Cyclometalated Ir(III) Complexes: A Joint Theoretical and Experimental Study. Inorganic Chemistry, 2011, 50, 7229-7238. | 1.9 | 101 |
| 59 | Interfacial Modification for High-Efficiency Vapor-Phase-Deposited Perovskite Solar Cells Based on a Metal Oxide Buffer Layer. Journal of Physical Chemistry Letters, 2018, 9, 1041-1046. | 2.1 | 101 |
| 60 | Mixed Iodideâ€“Bromide Methylammonium Lead Perovskite-based Diodes for Light Emission and Photovoltaics. Journal of Physical Chemistry Letters, 2015, 6, 3743-3748. | 2.1 | 100 |
| 61 | Perovskite solar cells prepared by flash evaporation. Chemical Communications, 2015, 51, 7376-7378. | 2.2 | 99 |
| 62 | Highly Luminescent Half-Lantern Cyclometalated Platinum(II) Complex: Synthesis, Structure, Luminescence Studies, and Reactivity.. Inorganic Chemistry, 2012, 51, 3427-3435. | 1.9 | 98 |
| 63 | Light-Emitting Electrochemical Cells Using Cyanine Dyes as the Active Components. Journal of the American Chemical Society, 2013, 135, 18008-18011. | 6.6 | 98 |
| 64 | High voltage vacuum-deposited CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>â€“CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> tandem solar cells. Energy and Environmental Science, 2018, 11, 3292-3297. | 15.6 | 98 |
| 65 | Highly Stable Red-Light-Emitting Electrochemical Cells. Journal of the American Chemical Society, 2017, 139, 3237-3248. | 6.6 | 95 |
| 66 | Solvent-Free Synthesis and Thin-Film Deposition of Cesium Copper Halides with Bright Blue Photoluminescence. Chemistry of Materials, 2019, 31, 10205-10210. | 3.2 | 94 |
| 67 | White-light phosphorescence emission from a single molecule: application to OLED. Chemical Communications, 2009, , 4672. | 2.2 | 92 |
| 68 | Stable Green Electroluminescence from an Iridium Tris-Heteroleptic Ionic Complex. Chemistry of Materials, 2012, 24, 1896-1903. | 3.2 | 91 |
| 69 | Fully Vacuum-Processed Wide Band Gap Mixed-Halide Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 214-219. | 8.8 | 91 |
| 70 | Subphthalocyanines as narrow band red-light emitting materials. Tetrahedron Letters, 2007, 48, 4657-4660. | 0.7 | 89 |
| 71 | Persistent photovoltage in methylammonium lead iodide perovskite solar cells. APL Materials, 2014, 2, . | 2.2 | 86 |
| 72 | Stable and Efficient Solidâ€State Lightâ€Emitting Electrochemical Cells Based on a Series of Hydrophobic Iridium Complexes. Advanced Energy Materials, 2011, 1, 282-290. | 10.2 | 84 |

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|---|---|---|---|
| 73 | Shine bright or live long: substituent effects in [Cu(N^N)(P^P)]<sup>+</sup>-based light-emitting electrochemical cells where N^N is a 6-substituted 2,2â€²-bipyridine. Journal of Materials Chemistry C, 2016, 4, 3857-3871. | 2.7 | 83 |
| 74 | Highly phosphorescent perfect green emitting iridium(iii) complex for application in OLEDs. Chemical Communications, 2007, , 3276. | 2.2 | 82 |
| 75 | Recent advances in light-emitting electrochemical cells. Pure and Applied Chemistry, 2011, 83, 2115-2128. | 0.9 | 82 |
| 76 | A deep-blue emitting charged bis-cyclometallated iridium(<scp>iii</scp>) complex for light-emitting electrochemical cells. Journal of Materials Chemistry C, 2013, 1, 58-68. | 2.7 | 81 |
| 77 | Tuning the Emission of Cationic Iridium (III) Complexes Towards the Red Through Methoxy Substitution of the Cyclometalating Ligand. Scientific Reports, 2015, 5, 12325. | 1.6 | 81 |
| 78 | Efficient Wide-Bandgap Mixed-Cation and Mixed-Halide Perovskite Solar Cells by Vacuum Deposition. ACS Energy Letters, 2021, 6, 827-836. | 8.8 | 81 |
| 79 | Improving the Turn-On Time of Light-Emitting Electrochemical Cells without Sacrificing their Stability. Chemistry of Materials, 2010, 22, 1288-1290. | 3.2 | 80 |
| 80 | [Cu(bpy)(P^P)]<sup>+</sup> containing light-emitting electrochemical cells: improving performance through simple substitution. Dalton Transactions, 2014, 43, 16593-16596. | 1.6 | 80 |
| 81 | Exceptionally long-lived light-emitting electrochemical cells: multiple intra-cation Ï€-stacking interactions in [Ir(C^N)<sub>2</sub>(N^N)][PF<sub>6</sub>] emitters. Chemical Science, 2015, 6, 2843-2852. | 3.7 | 79 |
| 82 | Two are not always better than one: ligand optimisation for long-living light-emitting electrochemical cells. Chemical Communications, 2009, , 2029. | 2.2 | 78 |
| 83 | Solution processable phosphorescent dendrimers based on cyclic phosphazenes for use in organic light emitting diodes (OLEDs). Chemical Communications, 2008, , 618-620. | 2.2 | 77 |
| 84 | Perovskiteâ€“Perovskite Homojunctions via Compositional Doping. Journal of Physical Chemistry Letters, 2018, 9, 2770-2775. | 2.1 | 77 |
| 85 | Vacuum-Deposited 2D/3D Perovskite Heterojunctions. ACS Energy Letters, 2019, 4, 2893-2901. | 8.8 | 77 |
| 86 | Correlating the Lifetime and Fluorine Content of Iridium(III) Emitters in Green Light-Emitting Electrochemical Cells. Chemistry of Materials, 2013, 25, 3391-3397. | 3.2 | 76 |
| 87 | Lead acetate precursor based p-i-n perovskite solar cells with enhanced reproducibility and low hysteresis. Journal of Materials Chemistry A, 2015, 3, 14121-14125. | 5.2 | 76 |
| 88 | Making by Grinding: Mechanochemistry Boosts the Development of Halide Perovskites and Other Multinary Metal Halides. Advanced Energy Materials, 2020, 10, 1902499. | 10.2 | 76 |
| 89 | Dynamic Doping in Planar Ionic Transition Metal Complexâ€Based Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2013, 23, 3531-3538. | 7.8 | 75 |
| 90 | Bright Blue Phosphorescence from Cationic Bis-Cyclometalated Iridium(III) Isocyanide Complexes. Inorganic Chemistry, 2012, 51, 2263-2271. | 1.9 | 74 |

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|---|---|---|---|
| 91 | Universal Transients in Polymer and Ionic Transition Metal Complex Light-Emitting Electrochemical Cells. Journal of the American Chemical Society, 2013, 135, 886-891. | 6.6 | 74 |
| 92 | Iridium(III) Complexes with Phenyl-tetrazoles as Cyclometalating Ligands. Inorganic Chemistry, 2014, 53, 7709-7721. | 1.9 | 72 |
| 93 | Consistent Device Simulation Model Describing Perovskite Solar Cells in Steady-State, Transient, and Frequency Domain. ACS Applied Materials &amp; Interfaces, 2019, 11, 23320-23328. | 4.0 | 72 |
| 94 | Light-emitting electrochemical cells based on a supramolecularly-caged phenanthroline-based iridium complex. Chemical Communications, 2011, 47, 3207. | 2.2 | 70 |
| 95 | Green Light-Emitting Solid-State Electrochemical Cell Obtained from a Homoleptic Iridium(III) Complex Containing Ionically Charged Ligands. Chemistry of Materials, 2006, 18, 2778-2780. | 3.2 | 68 |
| 96 | Hostâ€"guest blue light-emitting electrochemical cells. Journal of Materials Chemistry C, 2014, 2, 1605-1611. | 2.7 | 68 |
| 97 | Hybrid organic-inorganic light emitting diodes: effect of the metal oxide. Journal of Materials Chemistry, 2010, 20, 4047. | 6.7 | 67 |
| 98 | Single-Source Vacuum Deposition of Mechanosynthesized Inorganic Halide Perovskites. Chemistry of Materials, 2018, 30, 7423-7427. | 3.2 | 67 |
| 99 | Highly Stable and Efficient Light-Emitting Electrochemical Cells Based on Cationic Iridium Complexes Bearing Arylazole Ancillary Ligands. Inorganic Chemistry, 2017, 56, 10298-10310. | 1.9 | 65 |
| 100 | Effects of Masking on Open-Circuit Voltage and Fill Factor in Solar Cells. Joule, 2019, 3, 16-26. | 11.7 | 64 |
| 101 | Efficient blue emitting organic light emitting diodes based on fluorescent solution processable cyclic phosphazenes. Organic Electronics, 2008, 9, 155-163. | 1.4 | 63 |
| 102 | Pulsed-current versus constant-voltage light-emitting electrochemical cells with trifluoromethyl-substituted cationic iridium(iii) complexes. Journal of Materials Chemistry C, 2013, 1, 2241. | 2.7 | 63 |
| 103 | Highly luminescent perovskiteâ€"aluminum oxide composites. Journal of Materials Chemistry C, 2015, 3, 11286-11289. | 2.7 | 63 |
| 104 | Perovskite solar cells join the major league. Science, 2015, 350, 917-917. | 6.0 | 63 |
| 105 | Luminescent copper(<scp>i</scp>) complexes with bisphosphane and halogen-substituted 2,2â€²-bipyridine ligands. Dalton Transactions, 2018, 47, 14263-14276. | 1.6 | 63 |
| 106 | Determination of electron and hole energy levels in mesoporous nanocrystalline TiO2 solid-state dye solar cell. Synthetic Metals, 2006, 156, 944-948. | 2.1 | 62 |
| 107 | Efficient orange light-emitting electrochemical cells. Journal of Materials Chemistry, 2012, 22, 19264. | 6.7 | 62 |
| 108 | Boosting inverted perovskite solar cell performance by using 9,9-bis(4-diphenylaminophenyl)fluorene functionalized with triphenylamine as a dopant-free hole transporting material. Journal of Materials Chemistry A, 2019, 7, 12507-12517. | 5.2 | 62 |

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|---|---|---|---|
| 109 | Deep-Red-Emitting Electrochemical Cells Based on Heteroleptic Bis-chelated Ruthenium(II) Complexes. Inorganic Chemistry, 2009, 48, 3907-3909. | 1.9 | 61 |
| 110 | Green Phosphorescence and Electroluminescence of Sulfur Pentafluoride-Functionalized Cationic Iridium(III) Complexes. Inorganic Chemistry, 2015, 54, 5907-5914. | 1.9 | 61 |
| 111 | Peripheral halo-functionalization in [Cu(N^N)(P^P)]<sup>+</sup>emitters: influence on the performances of light-emitting electrochemical cells. Dalton Transactions, 2016, 45, 15180-15192. | 1.6 | 61 |
| 112 | Fluorine-free blue-green emitters for light-emitting electrochemical cells. Journal of Materials Chemistry C, 2014, 2, 5793-5804. | 2.7 | 60 |
| 113 | Best practices for measuring emerging light-emitting diode technologies. Nature Photonics, 2019, 13, 818-821. | 15.6 | 59 |
| 114 | Photovoltaic devices employing vacuum-deposited perovskite layers. MRS Bulletin, 2015, 40, 660-666. | 1.7 | 58 |
| 115 | Mechanochemical synthesis of inorganic halide perovskites: evolution of phase-purity, morphology, and photoluminescence. Journal of Materials Chemistry C, 2019, 7, 11406-11410. | 2.7 | 58 |
| 116 | White Hybrid Organicâ^'Inorganic Light-Emitting Diode Using ZnO as the Air-Stable Cathode. Chemistry of Materials, 2009, 21, 439-441. | 3.2 | 56 |
| 117 | Efficient Greenâ€Lightâ€Emitting Electrochemical Cells Based on Ionic Iridium Complexes with Sulfoneâ€Containing Cyclometalating Ligands. Chemistry - A European Journal, 2013, 19, 8597-8609. | 1.7 | 56 |
| 118 | Phosphorescent Hybrid Organicâ€"Inorganic Lightâ€Emitting Diodes. Advanced Materials, 2010, 22, 2198-2201. | 11.1 | 55 |
| 119 | Dynamic doping and degradation in sandwich-type light-emitting electrochemical cells. Physical Chemistry Chemical Physics, 2012, 14, 10886. | 1.3 | 55 |
| 120 | Tuning the photophysical properties of cationic iridium(<scp>iii</scp>) complexes containing cyclometallated 1-(2,4-difluorophenyl)-1H-pyrazole through functionalized 2,2â€²-bipyridineligands: blue but not blue enough. Dalton Transactions, 2013, 42, 1073-1087. | 1.6 | 54 |
| 121 | Deep-blue thermally activated delayed fluorescence (TADF) emitters for light-emitting electrochemical cells (LEECs). Journal of Materials Chemistry C, 2017, 5, 1699-1705. | 2.7 | 54 |
| 122 | Vacuum deposited perovskite solar cells employing dopant-free triazatruxene as the hole transport material. Solar Energy Materials and Solar Cells, 2017, 163, 237-241. | 3.0 | 54 |
| 123 | Control of charge trapping in a photorefractive polymer. Applied Physics Letters, 1995, 66, 1038-1040. | 1.5 | 53 |
| 124 | [Cu(P^P)(N^N)][PF<sub>6</sub>] compounds with bis(phosphane) and 6-alkoxy, 6-alkylthio, 6-phenyloxy and 6-phenylthio-substituted 2,2â€²-bipyridine ligands for light-emitting electrochemical cells. Journal of Materials Chemistry C, 2018, 6, 8460-8471. | 2.7 | 53 |
| 125 | Red-light-emitting electrochemical cell using a polypyridyl iridium(iii) polymer. Dalton Transactions, 2009, , 9787. | 1.6 | 52 |
| 126 | Dumbbellâ€Shaped Dinuclear Iridium Complexes and Their Application to Lightâ€Emitting Electrochemical Cells. Chemistry - A European Journal, 2010, 16, 9855-9863. | 1.7 | 51 |

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|---|---|---|---|
| 127 | Degradation Mechanisms in Organic Lead Halide Perovskite Lightâ€Emitting Diodes. Advanced Optical Materials, 2019, 7, 1900902. | 3.6 | 50 |
| 128 | Efficient Vacuum-Deposited Perovskite Solar Cells with Stable Cubic FA<sub>1â€"<i>x</i></sub>MA<sub><i>x</i></sub>PbI<sub>3</sub>. ACS Energy Letters, 2020, 5, 3053-3061. | 8.8 | 49 |
| 129 | Fullerene imposed high open-circuit voltage in efficient perovskite based solar cells. Journal of Materials Chemistry A, 2016, 4, 3667-3672. | 5.2 | 48 |
| 130 | Trap-limited mobility in space-charge limited current in organic layers. Organic Electronics, 2009, 10, 305-312. | 1.4 | 47 |
| 131 | Low Current Density Driving Leads to Efficient, Bright and Stable Green Electroluminescence. Advanced Energy Materials, 2013, 3, 1338-1343. | 10.2 | 47 |
| 132 | Photoluminescence quantum yield exceeding 80% in low dimensional perovskite thin-films via passivation control. Chemical Communications, 2017, 53, 8707-8710. | 2.2 | 47 |
| 133 | Roomâ€Temperature Cubic Phase Crystallization and High Stability of Vacuumâ€Deposited Methylammonium Lead Triiodide Thin Films for Highâ€Efficiency Solar Cells. Advanced Materials, 2019, 31, e1902692. | 11.1 | 47 |
| 134 | Efficient electroluminescence from a perylenediimide fluorophore obtained from a simple solution processed OLED. Journal Physics D: Applied Physics, 2009, 42, 105106. | 1.3 | 46 |
| 135 | Luminescent osmium(<scp>ii</scp>) bi-1,2,3-triazol-4-yl complexes: photophysical characterisation and application in light-emitting electrochemical cells. Dalton Transactions, 2016, 45, 7748-7757. | 1.6 | 45 |
| 136 | Enhancing the photoluminescence quantum yields of blue-emitting cationic iridium(<scp>iii</scp>) complexes bearing bisphosphine ligands. Inorganic Chemistry Frontiers, 2016, 3, 218-235. | 3.0 | 45 |
| 137 | CF<sub>3</sub> Substitution of [Cu(P^P)(bpy)][PF<sub>6</sub>] Complexes: Effects on Photophysical Properties and Lightâ€Emitting Electrochemical Cell Performance. ChemPlusChem, 2018, 83, 217-229. | 1.3 | 45 |
| 138 | Chiral Iridium(III) Complexes in Light-Emitting Electrochemical Cells: Exploring the Impact of Stereochemistry on the Photophysical Properties and Device Performances. ACS Applied Materials &amp; Interfaces, 2016, 8, 33907-33915. | 4.0 | 44 |
| 139 | Phosphane tuning in heteroleptic [Cu(N^N)(P^P)]<sup>+</sup>complexes for light-emitting electrochemical cells. Dalton Transactions, 2019, 48, 446-460. | 1.6 | 44 |
| 140 | Ionically Assisted Charge Injection in Hybrid Organicâˆ'Inorganic Light-Emitting Diodes. ACS Applied Materials &amp; Interfaces, 2010, 2, 2694-2698. | 4.0 | 43 |
| 141 | Polymer solar cells based on diphenylmethanofullerenes with reduced sidechain length. Journal of Materials Chemistry, 2011, 21, 1382-1386. | 6.7 | 43 |
| 142 | Dynamically Doped White Light Emitting Tandem Devices. Advanced Materials, 2014, 26, 770-774. | 11.1 | 43 |
| 143 | Synthesis, Properties, and Light-Emitting Electrochemical Cell (LEEC) Device Fabrication of Cationic Ir(III) Complexes Bearing Electron-Withdrawing Groups on the Cyclometallating Ligands. Inorganic Chemistry, 2016, 55, 10361-10376. | 1.9 | 43 |
| 144 | Molecular Passivation of MoO<sub>3</sub>: Band Alignment and Protection of Charge Transport Layers in Vacuum-Deposited Perovskite Solar Cells. Chemistry of Materials, 2019, 31, 6945-6949. | 3.2 | 43 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 145 | Low-dimensional non-toxic A<sub>3</sub>Bi<sub>2</sub>X<sub>9</sub> compounds synthesized by a dry mechanochemical route with tunable visible photoluminescence at room temperature. Journal of Materials Chemistry C, 2019, 7, 6236-6240. | 2.7 | 43 |
| 146 | Deposition Kinetics and Compositional Control of Vacuum-Processed CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 6852-6859. | 2.1 | 43 |
| 147 | Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. Matter, 2021, 4, 3549-3584. | 5.0 | 43 |
| 148 | Ionic Iridium Complex and Conjugated Polymer Used To Solution-Process a Bilayer White Light-Emitting Diode. ACS Applied Materials &amp; Interfaces, 2013, 5, 630-634. | 4.0 | 42 |
| 149 | Capacitance-voltage characteristics of organic light-emitting diodes varying the cathode metal: Implications for interfacial states. Physical Review B, 2007, 75, . | 1.1 | 41 |
| 150 | Chloride ion impact on materials for light-emitting electrochemical cells. Dalton Transactions, 2014, 43, 1961-1964. | 1.6 | 41 |
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