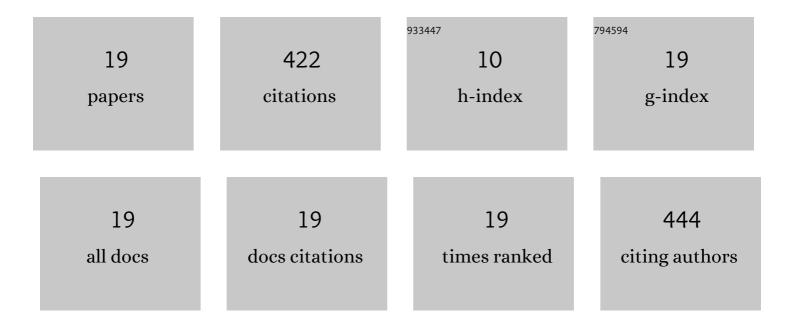
Hiren K Machhi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Selfâ€Assembled Solidâ€State Gel Catholyte Combating Iodide Diffusion and Selfâ€Discharge for a Stable Flexible Aqueous Zn–I ₂ Battery. Advanced Energy Materials, 2020, 10, 2001997.	19.5	86
2	Electrophoretically Deposited MoSe ₂ /WSe ₂ Heterojunction from Ultrasonically Exfoliated Nanocrystals for Enhanced Electrochemical Photoresponse. ACS Applied Materials & Interfaces, 2019, 11, 4093-4102.	8.0	57
3	A Smart Flexible Solid State Photovoltaic Device with Interfacial Cooling Recovery Feature through Thermoreversible Polymer Gel Electrolyte. Small, 2018, 14, e1800842.	10.0	42
4	Hierarchically Porous Metal–Organic Gel Hosting Catholyte for Limiting Iodine Diffusion and Self-Discharge Control in Sustainable Aqueous Zinc–I ₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 21426-21435.	8.0	35
5	Anisotropic One-Dimensional Aqueous Polymer Gel Electrolyte for Photoelectrochemical Devices: Improvement in Hydrophobic TiO ₂ –Dye/Electrolyte Interface. ACS Applied Energy Materials, 2018, 1, 3665-3673.	5.1	34
6	Harnessing the N-dopant ratio in carbon quantum dots for enhancing the power conversion efficiency of solar cells. Sustainable Energy and Fuels, 2019, 3, 3182-3190.	4.9	32
7	Transferrable thin film of ultrasonically exfoliated MoSe2 nanocrystals for efficient visible-light photodetector. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 114019.	2.7	29
8	Organic Ionic Plastic Crystals as Hole Transporting Layer for Stable and Efficient Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2001460.	14.9	27
9	Flexible Selfâ€Powered Electrochemical Photodetector Functionalized by Multilayered Tantalum Diselenide Nanocrystals. Advanced Optical Materials, 2021, 9, 2100993.	7.3	21
10	Ultrasonically Exfoliated Nanocrystal-Based Z-Scheme SnSe ₂ /WSe ₂ Heterojunction for a Superior Electrochemical Photoresponse. Journal of Physical Chemistry C, 2021, 125, 14729-14740.	3.1	14
11	†V' Shape A–D–Aâ€Type Designed Small Hole Conductors for Efficient Indoor and Outdoor Staging fro Solid Dyeâ€Sensitized Solar Cells and Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100206.	m5.8	10
12	Design and development of dithienopyrrolobenzothiadiazole (DTPBT)-based rigid conjugated polymers with improved hole mobilities. Polymer, 2020, 211, 123089.	3.8	7
13	Augmentation in photocurrent through organic ionic plastic crystals as an efficient redox mediator for solid-state mesoscopic photovoltaic devices. Sustainable Energy and Fuels, 2021, 5, 1466-1476.	4.9	7
14	Above 800 mV Open-Circuit Voltage in Solid-State Photovoltaic Devices Using Phosphonium Cation-Based Solid Ionic Conductors. ACS Applied Materials & Interfaces, 2020, 12, 22939-22947.	8.0	5
15	Benzylic C _{sp³} –H Bond Oxidation on the (111) Facets of Octahedral Cu ₂ O Nanocrystals. ACS Applied Nano Materials, 2021, 4, 7840-7855.	5.0	4
16	Effect of redox active multivalent metal salts on micellization of amphiphilic block copolymer for energy storage devices via SANS, DLS and NMR. Journal of Molecular Liquids, 2021, 341, 116904.	4.9	4
17	Dithienopyrrolobenzothiadiazoleâ€carbazole based Dâ€Ï€â€Aâ€Ï€â€D pâ€ŧype conjugated material. Nano Select, 1, 491-498.	2020, 3.7	3
18	Yellowish-orange phosphorescent iridium(III) complexes of bis-cyclometalated ligand with pyrazolone derivatives: synthesis, characterization, photophysical and thermal properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 13778-13786.	2.2	3

#	Article	IF	CITATIONS
19	Donor–acceptor ï€-conjugated polymers based on terthiophene-3,4-dicarboxylate, dithienopyrrolobenzothiadiazole and thieno[3,4-‹i>c]pyrrole-4,6-dione units and their hole mobility. New Journal of Chemistry, 2022, 46, 8601-8610.	2.8	2