Varun Kumar Singh

List of Publications by Year
in descending order

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20	922	516710 16	752698 20
papers	citations	h-index	g-index

20	20	20	1519
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Efficient and Stable Inverted Perovskite Solar Cell Obtained via Treatment by Semiconducting Chemical Additive. Advanced Materials, 2019, 31, e1805554.	21.0	134
2	Highly efficient organic photocatalysts discovered via a computer-aided-design strategy for visible-light-driven atom transfer radical polymerization. Nature Catalysis, 2018, 1, 794-804.	34.4	124
3	Emerging molecular design strategies of unsymmetrical phthalocyanines for dye-sensitized solar cell applications. RSC Advances, 2014, 4, 6970.	3.6	94
4	Inkjet-Printable Hydrochromic Paper for Encrypting Information and Anticounterfeiting. ACS Applied Materials & Interfaces, 2017, 9, 33071-33079.	8.0	92
5	Sterically demanding zinc(<scp>ii</scp>) phthalocyanines: synthesis, optical, electrochemical, nonlinear optical, excited state dynamics studies. Journal of Materials Chemistry C, 2014, 2, 1711-1722.	5.5	63
6	Organic Photocatalyst for ppm-Level Visible-Light-Driven Reversible Additionâ€“Fragmentation Chain-Transfer (RAFT) Polymerization with Excellent Oxygen Tolerance. Macromolecules, 2019, 52, 5538-5545.	4.8	56
7	A Mechanoresponsive Phaseâ€Changing Electrolyte Enables Fabrication of Highâ€Output Solidâ€State Photobioelectrochemical Devices from Pigmentâ€Protein Multilayers. Advanced Materials, 2018, 30, 1704073.	21.0	43
8	Biohybrid Photoproteinâ€Semiconductor Cells with Deepâ€Lying Redox Shuttles Achieve a 0.7 V Photovoltage. Advanced Functional Materials, 2018, 28, 1703689.	14.9	42
9	Multigram Mechanochemical synthesis of a Salophen Complex: A Comparative Analysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 1152-1160.	6.7	42
10	Sterically demanded unsymmetrical zinc phthalocyanines for dye-sensitized solar cells. Dyes and Pigments, 2013, 98, 518-529.	3.7	40
11	Triphenylamineâ€“phthalocyanine based sensitizer for sensitization of nanocrystalline TiO2 films. Solar Energy, 2011, 85, 1204-1212.	6.1	33
12	Transparent Nanofibrous Mesh Selfâ€Assembled from Molecular LEGOs for High Efficiency Air Filtration with New Functionalities. Small, 2017, 13, 1601924.	10.0	31
13	Dâ€“Ïâ€“A system based on zinc porphyrin dyes for dye-sensitized solar cells: Combined experimental and DFTâ€“TDDFT study. Polyhedron, 2015, 100, 313-320.	2.2	29
14	Near-infrared absorbing unsymmetrical Zn(II) phthalocyanine for dye-sensitized solar cells. Inorganica Chimica Acta, 2013, 407, 289-296.	2.4	21
15	Synthesis and photoelectrochemical characterization of a high molar extinction coefficient heteroleptic ruthenium(II) complex. Journal of Chemical Sciences, 2011, 123, 371-378.	1.5	20
16	Optical, electrochemical, third-order nonlinear optical, and excited state dynamics studies of thio-zinc phthalocyanine. Journal of Porphyrins and Phthalocyanines, 2014, 18, 305-315.	0.8	19
17	Optical, electrochemical, third order nonlinear optical, and excited state dynamics studies of bis(3,5-trifluoromethyl)phenyl-zinc phthalocyanine. RSC Advances, 2015, 5, 20810-20817.	3.6	15
18	Hydroâ€Assisted Selfâ€Regenerating Brominated Nâ€Alkylated Thiophene Diketopyrrolopyrrole Dye Nanofibersâ€”A Sustainable Synthesis Route for Renewable Air Filter Materials. Small, 2020, 16, e1906319.	10.0	12

#	Article	IF	Citations
19	Organic-Ruthenium(II) Polypyridyl Complex Based Sensitizer for Dye-Sensitized Solar Cell Applications. Advances in OptoElectronics, 2011, 2011, 1-8.	0.6	11
20	Grain Rotation and Grain Boundary Selection in Thin Films. Materials Research Society Symposia Proceedings, 1996, 458, 301.	0.1	1