Veerabhadrarao Kaliginedi

List of Publications by Year
in descending order

23 papers	1,765 citations	516561 16 h-index	677027 22 g-index
24 all docs	24 docs citations	24 times ranked	2195 citing authors

#	Article	IF	Citations
1	Fine-tuning the DNA conductance by intercalation of drug molecules. Physical Review E, 2021, 103, 032411.	0.8	5
2	Modulating the charge transport in metalâ",moleculeâ",metal junctions via electrochemical gating. Electrochimica Acta, 2021, 388, 138540.	2.6	6
3	Quantum Circuit Rules for Molecular Electronic Systems: Where Are We Headed Based on the Current Understanding of Quantum Interference, Thermoelectric, and Molecular Spintronics Phenomena?. Nano Letters, 2021, 21, 8532-8544.	4.5	16
4	Humidity-controlled rectification switching in ruthenium-complex molecular junctions. Nature Nanotechnology, 2018, 13, 117-121.	15.6	68
5	Probing the chemical state of tin oxide NP catalysts during CO2 electroreduction: A complementary operando approach. Nano Energy, 2018, 53, 828-840.	8.2	71
6	Modulation of Excess Electron Transfer through LUMO Gradients in DNA Containing Phenanthrenyl Base Surrogates. Chemistry - A European Journal, 2017, 23, 2022-2025.	1.7	8
7	Stable anchoring chemistry for room temperature charge transport through graphite-molecule contacts. Science Advances, 2017, 3, e1602297.	4.7	23
8	Conductance in a bis-terpyridine based single molecular breadboard circuit. Chemical Science, 2017, 8, 1576-1591.	3.7	25
9	Synthesis and Singleâ€Molecule Conductance Study of Redoxâ€Active Ruthenium Complexes with Pyridyl and Dihydrobenzo[b]thiophene Anchoring Groups. Chemistry - A European Journal, 2016, 22, 12732-12740.	1.7	26
10	TiO2 nanocontainers and nanospheres as photocatalysts for CO2 reduction and photoelectrochemical water splitting: structural modification. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s78-s79.	0.0	0
11	Electrochemical COâ„ Reduction â€“ A Critical View on Fundamentals, Materials and Applications. Chimia, 2015, 69, 769.	0.3	130
12	Exploitation of desilylation chemistry in tailor-made functionalization on diverse surfaces. Nature Communications, 2015, 6, 6403.	5.8	29
13	A quantum circuit rule for interference effects in single-molecule electrical junctions. Nature Communications, 2015, 6, 6389.	5.8	164
14	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. Nanoscale, 2015, 7, 17685-17692.	2.8	32
15	Electrochemical Control of Single-Molecule Conductance by Fermi-Level Tuning and Conjugation Switching. Journal of the American Chemical Society, 2014, 136, 17922-17925.	6.6	119
16	Highly-effective gating of single-molecule junctions: an electrochemical approach. Chemical Communications, 2014, 50, 15975-15978.	2.2	53
17	Promising anchoring groups for single-molecule conductance measurements. Physical Chemistry Chemical Physics, 2014, 16, 23529-23539.	1.3	106
18	Single-Molecule Conductance of Functionalized Oligoynes: Length Dependence and Junction Evolution. Journal of the American Chemical Society, 2013, 135, 12228-12240.	6.6	277

#	Article	IF	Citations
19	Electron transport through catechol-functionalized molecular rods. Electrochimica Acta, 2013, 110, 709-717.	2.6	11
20	Charge Transport in Photoswitchable Dimethyldihydropyrene-Type Single-Molecule Junctions. Journal of the American Chemical Society, 2013, 135, 5974-5977.	6.6	142
21	Trimethylsilyl-Terminated Oligo(phenylene ethynylene)s: An Approach to Single-Molecule Junctions with Covalent Auâ€“C Ïƒ-Bonds. Journal of the American Chemical Society, 2012, 134, 19425-19431.	6.6	163
22	Correlations between Molecular Structure and Single-Junction Conductance: A Case Study with Oligo(phenylene-ethynylene)-Type Wires. Journal of the American Chemical Society, 2012, 134, 5262-5275.	6.6	279
23	Kinetic parameters for the reaction of hydroxyl radical with CH₃OCH₂F (HFEâ€161) in the temperature range of 200â€“400 K: Transition state theory and Ab initio calculations. International Journal of Quantum Chemistry, 2012, 112, 1066-1077.	1.0	12