Torsten Hahn

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6697295/publications.pdf

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22	420	840776 11	713466 21
papers	citations	h-index	g-index

22	22	22	478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal Growth, Structure, and Transport Properties of the Charge-Transfer Salt Picene/2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane. Crystal Growth and Design, 2014, 14, 1338-1346.	3.0	66
2	Stretched or noded orbital densities and self-interaction correction in density functional theory. Journal of Chemical Physics, 2019, 150, 174102.	3.0	46
3	Self-consistent self-interaction corrected density functional theory calculations for atoms using Fermi-LÃ¶wdin orbitals: Optimized Fermi-orbital descriptors for Liâ€“Kr. Journal of Chemical Physics, 2017, 147, 164107.	3.0	39
4	Fermiâ€LÃ¶wdin orbital selfâ€interaction corrected density functional theory: Ionization potentials and enthalpies of formation. Journal of Computational Chemistry, 2018, 39, 2463-2471.	3.3	35
5	Hybrid States and Charge Transfer at a Phthalocyanine Heterojunction:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>MnPc</mml:mi><mml:mrow><mml:mi>Î´</mml:mi><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">F</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:mi>CoPc</mml:mi></mml:mrow><mml:mrow><mml:m Physical Review Letters, 2012, 109, 027601.	7.8	32
6	Synthesis and properties of new 9,10-anthraquinone derived compounds for molecular electronics. New Journal of Chemistry, 2013, 37, 601-610.	2.8	28
7	Optical and magneto-optical properties of metal phthalocyanine and metal porphyrin thin films. Journal of Physics Condensed Matter, 2014, 26, 104201.	1.8	27
8	Interpretation and Automatic Generation of Fermiâ€Orbital Descriptors. Journal of Computational Chemistry, 2019, 40, 2843-2857.	3.3	21
9	The Role of Self-Interaction Corrections, Vibrations, and Spin-Orbit in Determining the Ground Spin State in a Simple Heme. Magnetochemistry, 2017, 3, 31.	2.4	18
10	Phthalocyanine dimers in a blend: Spectroscopic and theoretical studies of MnPcÎ´+/F16CoPcÎ´â¯. Journal of Chemical Physics, 2013, 138, 024707.	3.0	17
11	Analytic atomic gradients in the fermiâ€LÃ¶wdin orbital selfâ€interaction correction. Journal of Computational Chemistry, 2019, 40, 820-825.	3.3	16
12	Electronic properties of the charge transfer material MnPc/F4TCNQ. Journal of Chemical Physics, 2016, 145, 114702.	3.0	11
13	Charge transfer from and to manganese phthalocyanine: bulk materials and interfaces. Beilstein Journal of Nanotechnology, 2017, 8, 1601-1615.	2.8	11
14	Electronic properties of 1,2;8,9-dibenzopentacene thin films: A joint experimental and theoretical study. Physical Review B, 2012, 86, .	3.2	8
15	Symmetry breaking in the charge-transfer state of the phthalocyanine based dimer: MnPc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mi>Î´</mml:mi><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>/F<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>16</mml:mn></mml:msub></mml:math>CoPc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow />	3.2	8
16	Magnetic Signatures of Hydroxylâ€and Waterâ€Terminated Neutral and Tetraâ€Anionic Mn₁₂â€Acetate. Journal of Computational Chemistry, 2019, 40, 2301-2308.	3.3	8
17	Silicon nano particles: Surface characterization, defects and electronic properties. Physica Status Solidi (B): Basic Research, 2008, 245, 959-962.	1.5	7
18	A gate controlled molecular switch based on piceneâ€“F4TCNQ charge-transfer material. Nanoscale, 2014, 6, 14508-14513.	5.6	6

#	Article	IF	Citations
19	Symmetry Breaking within Fermiâ€“LÃ¶wdin Orbital Self-Interaction Corrected Density Functional Theory. Journal of Chemical Theory and Computation, 2017, 13, 5823-5828.	5.3	6
20	Versatile Simulation Tool and Novel Measurement Method for Electrical Characterization of Semiconductors. Solid State Phenomena, 2009, 156-158, 241-246.	0.3	4
21	Electronic structure, transport, and collective effects in molecular layered systems. Beilstein Journal of Nanotechnology, 2017, 8, 2094-2105.	2.8	3
22	Electronic structure and transport properties of coupled CdS/ZnSe quantum dots. Journal of Physics Condensed Matter, 2021, 33, 125002.	1.8	3