Stefan Michael Blawid

List of Publications by Year
in descending order

43	340	933447	888059
papers	**citations**	10	17
		h-index	**g-index**

43	43	43	270
all docs	**docs citations**	**times ranked**	**citing authors**

#	Article	IF	Citations
1	Reentrant Charge Order Transition in the Extended Hubbard Model. Physical Review Letters, 1999, 82, 4046-4049.	7.8	61
2	COOS: a wave-function based Schrödinger–Poisson solver for ballistic nanotube transistors. Journal of Computational Electronics, 2014, 13, 689-700.	2.5	39
3	Periodic Anderson model with correlated conduction electrons. Physical Review B, 1997, 56, 6559-6568.	3.2	35
4	Gap to transition-temperature ratio in density-wave ordering: A dynamical mean-field study. Physical Review B, 2000, 62, 2424-2428.	3.2	22
5	Quantum phonons and the charge-density-wave transition temperature: A dynamical mean-field study. Physical Review B, 2001, 63, .	3.2	19
6	High-Frequency Ballistic Transport Phenomena in Schottky Barrier CNTFETs. IEEE Transactions on Electron Devices, 2012, 59, 2610-2618.	3.0	18
7	Kondo lattice model with correlated conduction electrons. Physical Review B, 1999, 59, 9888-9893.	3.2	16
8	Semiclassical approach to calculating the influence of local lattice fluctuations on electronic properties of metals. Physical Review B, 2003, 67, .	3.2	10
9	Performance Projections for a Reconfigurable Tunnel NanoFET. IEEE Journal of the Electron Devices Society, 2017, 5, 473-479.	2.1	10
10	Reconfigurable NanoFETs: Performance Projections for Multiple-Top-Gate Architectures. IEEE Nanotechnology Magazine, 2018, 17, 467-474.	2.0	10
11	Impact of near-contact barriers on the subthreshold slope of short-channel CNTFETs. , 2013, , .		9
12	Phenomenological Modeling of Charge Injection - Beyond the Schottky Barrier Paradigm. ECS Transactions, 2012, 49, 85-92.	0.5	8
13	Electronic and structural properties of the natural dyes curcumin, bixin and indigo. RSC Advances, 2021, 11, 14169-14177.	3.6	8
14	Impact of injection limitations on the contact resistance and the carrier mobility of organic field effect transistors. Organic Electronics, 2021, 99, 106343.	2.6	8
15	Benchmarking contact quality in N-type organic thin film transistors through an improved virtual-source emission-diffusion model. Applied Physics Reviews, 2022, 9, .	11.3	8
16	Modeling organic thin-film transistors based on the virtual source concept: A case study. Solid-State Electronics, 2019, 161, 107639.	1.4	7
17	Towards a multiscale modeling framework for metal-CNT interfaces. , 2014, , .		6
18	Ordering in Ising models of parabolic shape. European Physical Journal B, 1994, 95, 73-77.	1.5	5

#	Article	IF	Citations
19	Metal-insulator transitions due to self-doping. Physical Review B, 1996, 54, 7771-7778.	3.2	5
20	Drift-diffusion simulation of leakage currents in unintentionally doped organic semiconductors with non-uniform interfaces. Journal of Computational Electronics, 2019, 18, 120-129.	2.5	4
21	Understanding the metal-oxides induced reduction of the contact resistance in organic transistors. Solid-State Electronics, 2020, 163, 107676.	1.4	4
22	Combined UMCâ€" DFT prediction of electron-hole coupling in unit cells of pentacene crystals. Journal of Molecular Modeling, 2017, 23, 153.	1.8	3
23	Supervised Training ofÂaÂSimple Digital Assistant forÂaÂFree Crop Clinic. Lecture Notes in Computer Science, 2021, , 162-176.	1.3	3
24	Self-Consistent Extraction of Mobility and Series Resistance: A Hierarchy of Models for Benchmarking Organic Thin-Film Transistors. , 2022, 1, 114-121.		3
25	High-frequency benchmark circuit design for a sub 50 nm CNTFET technology. , 2013, , .		2
26	Multi-scale modeling of metal-CNT interfaces. , 2015, , .		2
27	Optical and electronic structure description of metal-doped phthalocyanines. Journal of Molecular Modeling, 2017, 23, 172.	1.8	2
28	Projected Tolerances of Carbon Nanotube Current-Mode Logic to Process Variability. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 704-708.	3.0	2
29	Inferring changes in Ï€-stack mobility induced by aging from vibronic transitions in poly(3-hexylthiophene-2,5-diyl) films. Synthetic Metals, 2019, 247, 276-284.	3.9	2
30	Experimental and theoretical description of the optical properties of Myrcia sylvatica essential oil. Journal of Molecular Modeling, 2017, 23, 196.	1.8	2
31	Theory of the temperature and doping dependence of the Hall effect in a model with x-ray edge singularities ind=âˆž. Physical Review B, 1998, 57, 11738-11742.	3.2	1
32	Model of semimetallic behavior in strongly correlated electron systems. Physical Review B, 1999, 59, 4777-4785.	3.2	1
33	Evaluation of reconfigurable tunnel FETs for low power and high performance operation. , 2017, , .		1
34	Computational Study on Schottky Barrier Height Extraction for Ballistic Nanotube Transistors. , 2018, , .		1
35	Exploring Quantum Tunneling in Ultrathin Transistors with Multiple Top Gates. , 2020, , .		1
36	Modeling the Impact of a Non-Ohmic Contact on the Delay of Complementary OTFT Inverters. , 2020, , .		1

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37	Multi-mode nanoFETs: From low power to high performance on demand. Semiconductor Science and Technology, 2020, 35, 055027.	2.0	1
38	Charge ordering in the extended Hubbard model. Physica B: Condensed Matter, 1999, 259-261, 769-770.	2.7	0
39	Semiclassical action based on dynamical mean-field theory describing electrons interacting with local lattice fluctuations. Physical Review B, 2003, 68, .	3.2	0
40	Effective action of electrons interacting with local lattice fluctuations. Physica C: Superconductivity and Its Applications, 2004, 408-410, 416-417.	1.2	0
41	How Under-Graduates Could Benefit from Graduate Courses in Electronic Engineering. , 2018, , .		0
42	Design of a simple electrical characterization platform for semiconducting organic films. , 2019, , .		0
43	The Unscented Transform as a Tool to Assess Circuit Variability for Emergent Technologies. , 2020, , .		0