Andreas F Tillack

List of Publications by Year
in descending order

24 papers	2,468 citations	759233 12 h-index	839539 18 g-index
26 all docs	26 docs citations	26 times ranked	1870 citing authors

#	Article	IF	Citations
1	AutoDock Vina 1.2.0: New Docking Methods, Expanded Force Field, and Python Bindings. Journal of Chemical Information and Modeling, 2021, 61, 3891-3898.	5.4	1,481
2	Spectral Control of Plasmonic Emission Enhancement from Quantum Dots near Single Silver Nanoprisms. Nano Letters, 2010, 10, 2598-2603.	9.1	228
3	Accelerating A<scp>uto</scp>D<scp>ock</scp>4 with GPUs and Gradient-Based Local Search. Journal of Chemical Theory and Computation, 2021, 17, 1060-1073.	5.3	128
4	Siliconâ€“Organic and Plasmonicâ€“Organic Hybrid Photonics. ACS Photonics, 2017, 4, 1576-1590.	6.6	123
5	Nonlinearities of organic electro-optic materials in nanoscale slots and implications for the optimum modulator design. Optics Express, 2017, 25, 2627.	3.4	114
6	Submicrosecond Time Resolution Atomic Force Microscopy for Probing Nanoscale Dynamics. Nano Letters, 2012, 12, 893-898.	9.1	82
7	Quantum Dot/Plasmonic Nanoparticle Metachromophores with Quantum Yields That Vary with Excitation Wavelength. Nano Letters, 2011, 11, 2725-2730.	9.1	56
8	Benzocyclobutene barrier layer for suppressing conductance in nonlinear optical devices during electric field poling. Applied Physics Letters, 2014, 104, .	3.3	56
9	Surface Characterization of Polythiophene:Fullerene Blends on Different Electrodes Using Near Edge X-ray Absorption Fine Structure. ACS Applied Materials & Interfaces, 2011, 3, 726-732.	8.0	38
10	GPU-Accelerated Drug Discovery with Docking on the Summit Supercomputer. , 2020, , .		36
11	Systematic Generation of Anisotropic Coarse-Grained Lennard-Jones Potentials and Their Application to Ordered Soft Matter. Journal of Chemical Theory and Computation, 2016, 12, 4362-4374.	5.3	22
12	Toward optimal EO response from ONLO chromophores: a statistical mechanics study of optimizing shape. Journal of the Optical Society of America B: Optical Physics, 2016, 33, E121.	2.1	20
13	Benchmarking the performance of irregular computations in AutoDock-GPU molecular docking. Parallel Computing, 2022, 109, 102861.	2.1	19
14	Modeling Chromophore Order: A Guide For Improving EO Performance. Materials Research Society Symposia Proceedings, 2014, 1698, 26.	0.1	11
15	Unraveling Excitonic Effects for the First Hyperpolarizabilities of Chromophore Aggregates. Journal of Physical Chemistry C, 2019, 123, 13818-13836.	3.1	8
16	Simple Model for the Benzene Hexafluorobenzene Interaction. Journal of Physical Chemistry B, 2017, 121, 6184-6188.	2.6	7
17	Poling-induced birefringence in OEO materials under nanoscale confinement. , 2018, , .		5
18	Alternative bridging architectures in organic nonlinear optical materials: comparison of Ï€- and Ï‡-type structures. Journal of the Optical Society of America B: Optical Physics, 2016, 33, E160.	2.1	3

#	Article	IF	Citations
19	Using Compiler Directives for Performance Portability in Scientific Computing: Kernels from Molecular Simulation. Lecture Notes in Computer Science, 2019, , 22-47.	1.3	2
20	Hybrid electro-optics and chipscale integration of electronics and photonics. , 2017, , .		2
21	Shape matters: The case for Ellipsoids and Ellipsoidal Water. Journal of Physics: Conference Series, 2017, 921, 012015.	0.4	1
22	Birefringence, dimensionality, and surface influences on organic hybrid electro-optic performance. , 2021, , .		1
23	Multi-scale theory-assisted nano-engineering of plasmonic-organic hybrid electro-optic device performance. , 2018, , .		1
24	Cross-conjugation as a Motif for Organic Non-Linear Optical Molecules. Materials Research Society Symposia Proceedings, 2014, 1698, 14.	0.1	0