Artem Fediai

List of Publications by Year in Descending Order

16 papers	193 citations	7 h-index	13 g-index
17 ext. papers	265 ext. citations	8.4 avg, IF	3.33 L-index

#	Paper	IF	Citations
16	De Novo Calculation of the Charge Carrier Mobility in Amorphous Small Molecule Organic Semiconductors.. *Frontiers in Chemistry*, **2021**, 9, 801589	5	2
15	Analyzing Dynamical Disorder for Charge Transport in Organic Semiconductors via Machine Learning. *Journal of Chemical Theory and Computation*, **2021**, 17, 3750-3759	6.4	5
14	Computing Charging and Polarization Energies of Small Organic Molecules Embedded into Amorphous Materials with Quantum Accuracy. *Journal of Chemical Theory and Computation*, **2021**, 17, 3727-3738	6.4	2
13	Ionic liquid gating of single-walled carbon nanotube devices with ultra-short channel length down to 10 nm. *Applied Physics Letters*, **2021**, 118, 063101	3.4	2
12	De Novo Simulation of Charge Transport through Organic Single-Carrier Devices. *Journal of Chemical Theory and Computation*, **2021**, 17, 6416-6422	6.4	2
11	Disorder-driven doping activation in organic semiconductors. *Physical Chemistry Chemical Physics*, **2020**, 22, 10256-10264	3.6	10
10	43-3: Ab-initio Simulation of Doped Injection Layers.. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 630-633	0.5	6
9	Toward Design of Novel Materials for Organic Electronics. *Advanced Materials*, **2019**, 31, e1808256	24	60
8	Organic Semiconductors: Toward Design of Novel Materials for Organic Electronics (Adv. Mater. 26/2019). *Advanced Materials*, **2019**, 31, 1970188	24	4
7	Disorder compensation controls doping efficiency in organic semiconductors. *Nature Communications*, **2019**, 10, 4547	17.4	23
6	Polarization-Sensitive Single-Wall Carbon Nanotubes All-in-One Photodetecting and Emitting Device Working at 1.55 μm. *Advanced Functional Materials*, **2017**, 27, 1702341	15.6	11
5	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. *Nano Letters*, **2017**, 17, 4725-4732	11.5	10
4	Impact of incomplete metal coverage on the electrical properties of metal-CNT contacts: A large-scale ab initio study. *Applied Physics Letters*, **2016**, 109, 103101	3.4	6
3	The modular approach enables a fully ab initio simulation of the contacts between 3D and 2D materials. *Journal of Physics Condensed Matter*, **2016**, 28, 395303	1.8	1
2	Towards an optimal contact metal for CNTFETs. *Nanoscale*, **2016**, 8, 10240-51	7.7	36
1	Electron transport in extended carbon-nanotube/metal contacts: Ab initio based Green function method. *Physical Review B*, **2015**, 91,	3.3	13