Roberto D'Agosta

List of Publications by Year
in descending order

47 papers	1,916 citations	304602 22 h-index	243529 44 g-index
50 all docs	50 docs citations	50 times ranked	2392 citing authors

#	Article	IF	Citations
1	Strongly Anisotropic Strainâ€Tunability of Excitons in Exfoliated ZrSe₃. Advanced Materials, 2022, 34, e2103571.	11.1	16
2	Transport coefficients of layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>TiS</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml	0.9	4
	Physical Review Materials, 2022, 6, .		
3	Strongly Anisotropic Strainâ€Tunability of Excitons in Exfoliated ZrSe₃ (Adv. Mater. 1/2022). Advanced Materials, 2022, 34, .	11.1	1
4	Making copper, silver and gold fullerene cages breathe. Journal of Physics Condensed Matter, 2022, 34, 224005.	0.7	2
5	Exploring AuRh Nanoalloys: A Computational Perspective on the Formation and Physical Properties. ChemPhysChem, 2022, 23, .	1.0	6
6	In-plane anisotropic optical and mechanical properties of two-dimensional MoO3. Npj 2D Materials and Applications, 2021, 5, .	3.9	33
7	Thermoelectric transport within density functional theory. Physical Review B, 2021, 104, .	1.1	7
8	Tunable Photodetectors via In Situ Thermal Conversion of TiS3 to TiO2. Nanomaterials, 2020, 10, 711.	1.9	14
9	Beyond the State of the Art: Novel Approaches for Thermal and Electrical Transport in Nanoscale Devices. Entropy, 2019, 21, 752.	1.1	5
10	Steady-state density functional theory for thermoelectric effects. Physical Review B, 2019, 100, .	1.1	5
11	Strain-induced band gap engineering in layered TiS3. Nano Research, 2018, 11, 225-232.	5.8	36
12	Large birefringence and linear dichroism in TiS₃ nanosheets. Nanoscale, 2018, 10, 12424-12429.	2.8	40
13	Reviewâ€"Towards the Next Generation of Thermoelectric Materials: Tailoring Electronic and Phononic Properties of Nanomaterials. ECS Journal of Solid State Science and Technology, 2017, 6, N3065-N3079.	0.9	17
14	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. 2D Materials, 2017, 4, 022003.	2.0	146
15	Structural stability and uniformity of magnetic Pt13 nanoparticles in NaY zeolite. Nanoscale, 2017, 9, 15658-15665.	2.8	11
16	Density functional theory of the Seebeck coefficient in the Coulomb blockade regime. Physical Review B, 2016, 94, .	1.1	14
17	Strong Quantum Confinement Effect in the Optical Properties of Ultrathin Î±â€in₂Se₃. Advanced Optical Materials, 2016, 4, 1939-1943.	3.6	89
18	Efficient simulations with electronic open boundaries. Physical Review B, 2016, 94, .	1.1	4

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19	Titanium trisulfide (TiS3): a 2D semiconductor with quasi-1D optical and electronic properties. Scientific Reports, 2016, 6, 22214.	1.6	107
20	Geometrical Effects on the Magnetic Properties of Nanoparticles. Nano Letters, 2016, 16, 2885-2889.	4.5	37
21	Electronic Bandgap and Exciton Binding Energy of Layered Semiconductor TiS₃. Advanced Electronic Materials, 2015, 1, 1500126.	2.6	59
22	Optimal thermoelectric figure of merit of Si/Ge core-shell nanowires. Nano Research, 2015, 8, 2611-2619.	5.8	19
23	TiS₃ Transistors with Tailored Morphology and Electrical Properties. Advanced Materials, 2015, 27, 2595-2601.	11.1	193
24	Time-Dependent Thermal Transport Theory. Physical Review Letters, 2015, 115, 056801.	2.9	18
25	Thermoelectric properties of atomically thin silicene and germanene nanostructures. Physical Review B, 2014, 89, .	1.1	164
26	Application of a time-convolutionless stochastic SchrÃ¶dinger equation to energy transport and thermal relaxation. Journal of Physics Condensed Matter, 2014, 26, 395303.	0.7	7
27	Classical to Quantum Transition of Heat Transfer between Two Silica Clusters. Physical Review Letters, 2014, 112, 114301.	2.9	44
28	Towards a dynamical approach to the calculation of the figure of merit of thermoelectric nanoscale devices. Physical Chemistry Chemical Physics, 2013, 15, 1758-1765.	1.3	26
29	Foundations of stochastic time-dependent current-density functional theory for open quantum systems: Potential pitfalls and rigorous results. Physical Review B, 2013, 87, .	1.1	5
30	Enhanced thermoelectric properties in hybrid graphene/boron nitride nanoribbons. Physical Review B, 2012, 86, .	1.1	138
31	A stochastic approach to open quantum systems. Journal of Physics Condensed Matter, 2012, 24, 273201.	0.7	37
32	Local electron and ionic heating effects on the conductance of nanostructures. Journal of Physics Condensed Matter, 2008, 20, 374102.	0.7	15
33	Stochastic time-dependent current-density-functional theory: A functional theory of open quantum systems. Physical Review B, 2008, 78, .	1.1	36
34	Electronic viscosity in a quantum well: A test for the local-density approximation. Physical Review B, 2007, 76, .	1.1	10
35	Stochastic Time-Dependent Current-Density-Functional Theory. Physical Review Letters, 2007, 98, 226403.	2.9	69
36	Local ionic and electron heating in single-molecule junctions. Nature Nanotechnology, 2007, 2, 698-703.	15.6	171

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37	Electrostatic Landau pole for Î¹-velocity distributions. Physics of Plasmas, 2007, 14, .	0.7	18
38	Local Electron Heating in Nanoscale Conductors. Nano Letters, 2006, 6, 2935-2938.	4.5	61
39	Temperature-dependent theory of tunneling in the fractional quantum Hall effect. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 199-202.	1.3	0
40	Hydrodynamic approach to transport and turbulence in nanoscale conductors. Journal of Physics Condensed Matter, 2006, 18, 11059-11065.	0.7	23
41	Relaxation in Time-Dependent Current-Density-Functional Theory. Physical Review Letters, 2006, 96, 016405.	2.9	44
42	Non-V-representability of currents in time-dependent many-particle systems. Physical Review B, 2005, 71, .	1.1	21
43	Temperature Dependence of the Tunneling Amplitude between Quantum Hall Edges. Physical Review Letters, 2005, 94, 086801.	2.9	12
44	Quasi-particle tunneling between fractional quantum Hall edges. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 185-188.	1.3	5
45	Transport properties of a two-dimensional electron liquid at high magnetic fields. Physical Review B, 2003, 68, .	1.1	13
46	States without a linear counterpart in Bose-Einstein condensates. Physical Review A, 2002, 65, .	1.0	67
47	Stationary solutions of the Grossâ€“Pitaevskii equation with linear counterpart. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 275, 424-434.	0.9	44