

# Roberto D'Agosta

## List of Publications by Year in descending order

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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	TiS <sub>3</sub> Transistors with Tailored Morphology and Electrical Properties. <i>Advanced Materials</i> , 2015, 27, 2595-2601.	11.1	193
2	Local ionic and electron heating in single-molecule junctions. <i>Nature Nanotechnology</i> , 2007, 2, 698-703.	15.6	171
3	Thermoelectric properties of atomically thin silicene and germanene nanostructures. <i>Physical Review B</i> , 2014, 89, .	1.1	164
4	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. <i>2D Materials</i> , 2017, 4, 022003.	2.0	146
5	Enhanced thermoelectric properties in hybrid graphene/boron nitride nanoribbons. <i>Physical Review B</i> , 2012, 86, .	1.1	138
6	Titanium trisulfide (TiS <sub>3</sub> ): a 2D semiconductor with quasi-1D optical and electronic properties. <i>Scientific Reports</i> , 2016, 6, 22214.	1.6	107
7	Strong Quantum Confinement Effect in the Optical Properties of Ultrathin In <sub>2</sub> Se <sub>3</sub> . <i>Advanced Optical Materials</i> , 2016, 4, 1939-1943.	3.6	89
8	Stochastic Time-Dependent Current-Density-Functional Theory. <i>Physical Review Letters</i> , 2007, 98, 226403.	2.9	69
9	States without a linear counterpart in Bose-Einstein condensates. <i>Physical Review A</i> , 2002, 65, .	1.0	67
10	Local Electron Heating in Nanoscale Conductors. <i>Nano Letters</i> , 2006, 6, 2935-2938.	4.5	61
11	Electronic Bandgap and Exciton Binding Energy of Layered Semiconductor TiS <sub>3</sub> . <i>Advanced Electronic Materials</i> , 2015, 1, 1500126.	2.6	59
12	Stationary solutions of the Gross-Pitaevskii equation with linear counterpart. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 275, 424-434.	0.9	44
13	Relaxation in Time-Dependent Current-Density-Functional Theory. <i>Physical Review Letters</i> , 2006, 96, 016405.	2.9	44
14	Classical to Quantum Transition of Heat Transfer between Two Silica Clusters. <i>Physical Review Letters</i> , 2014, 112, 114301.	2.9	44
15	Large birefringence and linear dichroism in TiS <sub>3</sub> nanosheets. <i>Nanoscale</i> , 2018, 10, 12424-12429.	2.8	40
16	A stochastic approach to open quantum systems. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 273201.	0.7	37
17	Geometrical Effects on the Magnetic Properties of Nanoparticles. <i>Nano Letters</i> , 2016, 16, 2885-2889.	4.5	37
18	Stochastic time-dependent current-density-functional theory: A functional theory of open quantum systems. <i>Physical Review B</i> , 2008, 78, .	1.1	36

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19	Strain-induced band gap engineering in layered TiS <sub>3</sub> . Nano Research, 2018, 11, 225-232.	5.8	36
20	In-plane anisotropic optical and mechanical properties of two-dimensional MoO <sub>3</sub> . Npj 2D Materials and Applications, 2021, 5, .	3.9	33
21	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
22	Hydrodynamic approach to transport and turbulence in nanoscale conductors. Journal of Physics Condensed Matter, 2006, 18, 11059-11065.	0.7	23
23	Non-V-representability of currents in time-dependent many-particle systems. Physical Review B, 2005, 71, .	1.1	21
24	Optimal thermoelectric figure of merit of Si/Ge core-shell nanowires. Nano Research, 2015, 8, 2611-2619.	5.8	19
25	Electrostatic Landau pole for $\hat{P}$ -velocity distributions. Physics of Plasmas, 2007, 14, .	0.7	18
26	Time-Dependent Thermal Transport Theory. Physical Review Letters, 2015, 115, 056801.	2.9	18
27	Review“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
28	Strongly Anisotropic Strain“Tunability of Excitons in Exfoliated ZrSe <sub>3</sub> . Advanced Materials, 2022, 34, e2103571.	11.1	16
29	Local electron and ionic heating effects on the conductance of nanostructures. Journal of Physics Condensed Matter, 2008, 20, 374102.	0.7	15
30	Density functional theory of the Seebeck coefficient in the Coulomb blockade regime. Physical Review B, 2016, 94, .	1.1	14
31	Tunable Photodetectors via In Situ Thermal Conversion of TiS <sub>3</sub> to TiO <sub>2</sub> . Nanomaterials, 2020, 10, 711.	1.9	14
32	Transport properties of a two-dimensional electron liquid at high magnetic fields. Physical Review B, 2003, 68, .	1.1	13
33	Temperature Dependence of the Tunneling Amplitude between Quantum Hall Edges. Physical Review Letters, 2005, 94, 086801.	2.9	12
34	Structural stability and uniformity of magnetic Pt <sub>13</sub> nanoparticles in NaY zeolite. Nanoscale, 2017, 9, 15658-15665.	2.8	11
35	Electronic viscosity in a quantum well: A test for the local-density approximation. Physical Review B, 2007, 76, .	1.1	10
36	Application of a time-convolutionless stochastic Schr“dinger equation to energy transport and thermal relaxation. Journal of Physics Condensed Matter, 2014, 26, 395303.	0.7	7

#	ARTICLE	IF	CITATIONS
37	Thermoelectric transport within density functional theory. <i>Physical Review B</i> , 2021, 104, .	1.1	7
38	Exploring AuRh Nanoalloys: A Computational Perspective on the Formation and Physical Properties. <i>ChemPhysChem</i> , 2022, 23, .	1.0	6
39	Quasi-particle tunneling between fractional quantum Hall edges. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 185-188.	1.3	5
40	Foundations of stochastic time-dependent current-density functional theory for open quantum systems: Potential pitfalls and rigorous results. <i>Physical Review B</i> , 2013, 87, .	1.1	5
41	Beyond the State of the Art: Novel Approaches for Thermal and Electrical Transport in Nanoscale Devices. <i>Entropy</i> , 2019, 21, 752.	1.1	5
42	Steady-state density functional theory for thermoelectric effects. <i>Physical Review B</i> , 2019, 100, .	1.1	5
43	Efficient simulations with electronic open boundaries. <i>Physical Review B</i> , 2016, 94, .	1.1	4
44	Transport coefficients of layered $\text{TiS}_3$ . <i>Physical Review Materials</i> , 2022, 6, .	1.1	4
45	Making copper, silver and gold fullerene cages breathe. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 224005.	0.7	2
46	Strongly Anisotropic Strain-Tunability of Excitons in Exfoliated $\text{ZrSe}_3$ (Adv. Mater. 1/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	1
47	Temperature-dependent theory of tunneling in the fractional quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 199-202.	1.3	0