

# Nicolae Atodiresei

## List of Publications by Year in descending order

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90  
papers

3,526  
citations

172386

29  
h-index

138417

58  
g-index

94  
all docs

94  
docs citations

94  
times ranked

4253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial variation of geometry, binding, and electronic properties in the moiré superstructure of MoS <sub>2</sub> on Au(111). 2D Materials, 2022, 9, 025003.	2.0	15
2	Uniaxially Aligned 1D Sandwich-Molecular Wires: Electronic Structure and Magnetism. Journal of Physical Chemistry C, 2022, 126, 3140-3150.	1.5	4
3	Single-crystal graphene on Ir(110). Physical Review B, 2022, 105, .	1.1	7
4	Tailoring magnetic anisotropy by graphene-induced selective skyhook effect on 4f-metals. Nanoscale, 2022, 14, 7682-7691.	2.8	4
5	Size-limited high-density nanopore formation in two-dimensional moiré materials. Physical Review B, 2022, 105, .	1.1	0
6	Selecting the Reaction Path in On-Surface Synthesis through the Electron Chemical Potential in Graphene. Journal of the American Chemical Society, 2022, 144, 11003-11009.	6.6	2
7	Local dimerization and dedimerization of C60 molecules under a tip of scanning tunneling microscope: A first-principles study. Carbon, 2020, 159, 638-647.	5.4	4
8	Spin-polarized electron transmission through B-doped graphene nanoribbons with Fe functionalization: a first-principles study. New Journal of Physics, 2020, 22, 063022.	1.2	2
9	Se intercalation between Pt and the Pt surface during synthesis of PtSe <sub>2</sub> by direct selenization of Pt(111). Physical Review B, 2020, 102, .	1.1	3
10	Protection of one-dimensional Si chains embedded in Pt(111) and protected by a hexagonal boron-nitride monolayer. Surface Science, 2019, 685, 24-33.	0.8	0
11	Ab initio study of magnetic nanopatterning of a hybrid transition metal dichalcogenides/Ir(111) system via magnetic clusters. Physical Review Materials, 2019, 3, .	0.9	4
12	Corrugated graphene exposes the limits of a widely used ab initio van der Waals DFT functional. Physical Review Materials, 2019, 3, .	0.9	2
13	Boron-Doped Graphene Nanoribbons: Electronic Structure and Raman Fingerprint. ACS Nano, 2018, 12, 7571-7582.	7.3	38
14	A Monolayer of Hexagonal Boron Nitride on Ir(111) as a Template for Cluster Superlattices. ACS Nano, 2018, 12, 6871-6880.	7.3	31
15	Magnetic properties of transition metal dichalcogenides-Fe/Ir(111) interfaces from first principles. Physical Review Materials, 2018, 2, .	0.9	4
16	Semiconductor-Metal Transition and Quasiparticle Renormalization in Doped Graphene Nanoribbons. Advanced Electronic Materials, 2017, 3, 1600490.	2.6	33
17	Quantum interference effects in molecular spin hybrids. Physical Review B, 2017, 95, .	1.1	11
18	Magnetism in a graphene-4f <sup>3</sup> 3d hybrid system. Physical Review B, 2017, 95, .	1.1	22

#	ARTICLE	IF	CITATIONS
19	Interface-driven formation of a two-dimensional dodecagonal fullerene quasicrystal. Nature Communications, 2017, 8, 15367.	5.8	16
20	Guided Molecular Assembly on a Locally Reactive 2D Material. Advanced Materials, 2017, 29, 1703929.	11.1	7
21	Creating anisotropic spin-split surface states in momentum space by molecular adsorption. Physical Review B, 2017, 96, .	1.1	6
22	Annealing of ion-irradiated hexagonal boron nitride on Ir(111). Physical Review B, 2017, 96, .	1.1	17
23	Imaging Individual Molecular-Like Orbitals of a Non-Planar Naphthalene Diimide on Pt(111): A Combined STM and DFT Study. Journal of Physical Chemistry C, 2017, 121, 26916-26924.	1.5	6
24	Magnetic subunits within a single moleculeâ€“surface hybrid. New Journal of Physics, 2017, 19, 053016.	1.2	12
25	On-Surface Synthesis of Sandwich Molecular Nanowires on Graphene. Journal of the American Chemical Society, 2017, 139, 9895-9900.	6.6	25
26	Designing the Rashba spin texture by adsorption of inorganic molecules. New Journal of Physics, 2017, 19, 043017.	1.2	8
27	Exchange interactions of magnetic surfaces below two-dimensional materials. Physical Review B, 2016, 93, .	1.1	8
28	Structure and Growth of Hexagonal Boron Nitride on Ir(111). ACS Nano, 2016, 10, 11012-11026.	7.3	93
29	Sub-molecular modulation of a 4f driven Kondo resonance by surface-induced asymmetry. Nature Communications, 2016, 7, 12785.	5.8	32
30	Spin-Hybrids: A Single-Molecule Approach to Spintronics. E-Journal of Surface Science and Nanotechnology, 2016, 14, 17-22.	0.1	11
31	Tuning the surface electronic structure of a Pt <sub>3</sub> /Ti(111) electro catalyst. Nanoscale, 2016, 8, 13924-13933.	2.8	17
32	Oxygen orders differently under graphene: new superstructures on Ir(111). Nanoscale, 2016, 8, 1932-1943.	2.8	25
33	Chemically functionalized magnetic exchange interactions of hybrid organic-ferromagnetic metal interfaces. Physical Review B, 2015, 91, .	1.1	39
34	Molecular induced skyhook effect for magnetic interlayer softening. Physical Review B, 2015, 92, .	1.1	19
35	Tuning the van der Waals Interaction of Graphene with Molecules via Doping. Physical Review Letters, 2015, 115, 236101.	2.9	48
36	STRUCTURAL INTEGRITY OF SINGLE BIS(PHTHALOCYANINATO)-NEODYMIUM(III) MOLECULES ON METAL SURFACES WITH DIFFERENT REACTIVITY. Spin, 2014, 04, 1440007.	0.6	10

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37	TAILORING FERROMAGNETIC MOLECULE INTERFACES: TOWARDS MOLECULAR SPINTRONICS. Spin, 2014, 04, 1440014.	0.6	4
38	A Short Review on the Magnetic Effects Occurring at Organic Ferromagnetic Interfaces Formed between Benzene-Like Molecules and Graphene with Ferromagnetic Surfaces. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 360-370.	0.7	2
39	Interface-assisted spintronics: Tailoring at the molecular scale. MRS Bulletin, 2014, 39, 596-601.	1.7	29
40	Structure and dynamics in liquid bismuth and Bi <sub>n</sub> clusters: A density functional study. Journal of Chemical Physics, 2014, 141, 194503.	1.2	21
41	Spin polarization of Co(0001)/graphene junctions from first principles. Journal of Physics Condensed Matter, 2014, 26, 104204.	0.7	15
42	Confinement of Dirac electrons in graphene quantum dots. Physical Review B, 2014, 89, .	1.1	36
43	Self-assembled monolayers of methylselenolate on the Au(111) surface: A combined STM and DFT study. Surface Science, 2014, 619, 67-70.	0.8	4
44	Long-range magnetic coupling between nanoscale organic-metal hybrids mediated by a nanoskyrmion lattice. Nature Nanotechnology, 2014, 9, 1018-1023.	15.6	44
45	Local tunnel magnetoresistance of an iron intercalated graphene-based heterostructure. Journal of Physics Condensed Matter, 2014, 26, 394004.	0.7	18
46	First-principles insights into the electronic and magnetic structure of hybrid organic-metal interfaces. Journal of Physics Condensed Matter, 2014, 26, 263001.	0.7	10
47	Magnetic Hardening Induced by Nonmagnetic Organic Molecules. Physical Review Letters, 2013, 111, 106805.	2.9	89
48	The Backside of Graphene: Manipulating Adsorption by Intercalation. Nano Letters, 2013, 13, 5013-5019.	4.5	74
49	The mechanism of caesium intercalation of graphene. Nature Communications, 2013, 4, 2772.	5.8	184
50	Accessing 4f-states in single-molecule spintronics. Nature Communications, 2013, 4, 2425.	5.8	71
51	Hybridisation at the organic-metal interface: a surface-scientific analogue of Hückel's rule?. Chemical Communications, 2013, 49, 5993.	2.2	15
52	Atomic-scale magnetism of cobalt-intercalated graphene. Physical Review B, 2013, 87, .	1.1	138
53	Absence of Edge States in Covalently Bonded Zigzag Edges of Graphene on Ir(111). Advanced Materials, 2013, 25, 1967-1972.	11.1	42
54	Interface-engineered templates for molecular spin memory devices. Nature, 2013, 493, 509-513.	13.7	401

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55	Tuning electron transport through molecular junctions by chemical modification of the molecular core: First-principles study. <i>Physical Review B</i> , 2013, 88, .	1.1	4
56	Systematic chemical functionalization of hybrid molecule-metal surface interfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2267-2276.	0.7	1
57	Semiempirical van der Waals interactions versus <i>ab initio</i> nonlocal correlation effects in the thiophene-Cu(111) system. <i>Physical Review B</i> , 2012, 86, .	1.1	22
58	<i>Ab initio</i> and semi-empirical van der Waals study of graphene-boron nitride interaction from a molecular point of view. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 424214.	0.7	26
59	Tuning the electron transport of molecular junctions by chemically functionalizing anchoring groups: First-principles study. <i>Physical Review B</i> , 2012, 85, .	1.1	8
60	Rationale for switching to nonlocal functionals in density functional theory. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 424215.	0.7	18
61	Arylthio-substituted coronenes as tailored building blocks for molecular electronics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1635-1641.	1.3	2
62	Identifying Molecular Orbital Energies by Distance-Dependent Transition Voltage Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15025-15030.	1.5	22
63	Single Electron Tunneling through a Tailored Arylthio-coronene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9204-9209.	1.5	9
64	Graphene on Ir(111): Physisorption with Chemical Modulation. <i>Physical Review Letters</i> , 2011, 107, 036101.	2.9	270
65	Self-Assembled Nanometer-Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. <i>Advanced Functional Materials</i> , 2011, 21, 1212-1228.	7.8	48
66	Fine tuning of the electronic structure of $\pi$ -conjugated molecules for molecular electronics. <i>Nanotechnology</i> , 2011, 22, 145701.	1.3	10
67	Engineering the magnetic properties of hybrid organic-ferromagnetic interfaces by molecular chemical functionalization. <i>Physical Review B</i> , 2011, 84, .	1.1	52
68	Graphene on the Ir(111) surface: from van der Waals to strong bonding. <i>New Journal of Physics</i> , 2010, 12, 113016.	1.2	54
69	Atodiresei et al. Reply. <i>Physical Review Letters</i> , 2010, 104, .	2.9	1
70	Electronic Mapping of Molecular Orbitals at the Molecule-Metal Interface. <i>Physical Review Letters</i> , 2010, 105, 066801.	2.9	23
71	Real-space electronic structure calculations with full-potential all-electron precision for transition metals. <i>Physical Review B</i> , 2010, 82, .	1.1	44
72	Density functional theory with nonlocal correlation: A key to the solution of the CO adsorption puzzle. <i>Physical Review B</i> , 2010, 81, .	1.1	83

