Ronei Miotto

List of Publications by Year in descending order

48 papers	924 citations	516710 16 h-index	454955 30 g-index
48 all docs	48 docs citations	48 times ranked	1217 citing authors

#	Article	IF	Citations
1	Effect of magnetic dipolar interactions on nanoparticle heating efficiency: Implications for cancer hyperthermia. Scientific Reports, 2013, 3, 2887.	3.3	309
2	A comparative study of dissociative adsorption of NH3, PH3, and AsH3 on Si(001)â€“(2Ã—1). Journal of Chemical Physics, 2001, 114, 9549-9556.	3.0	51
3	Acetylene adsorption on the Si(001) surface. Physical Review B, 2002, 65, .	3.2	48
4	Dissociative adsorption ofNH3onSi(001)â^'(2Ã—1). Physical Review B, 1998, 58, 7944-7949.	3.2	40
5	Chain formation and aging process in biocompatible polydisperse ferrofluids: Experimental investigation and Monte Carlo simulations. Advances in Colloid and Interface Science, 2013, 191-192, 1-21.	14.7	37
6	Aggregate formation on polydisperse ferrofluids: A Monte Carlo analysis. Journal of Magnetism and Magnetic Materials, 2005, 293, 553-558.	2.3	33
7	Comparative study of the adsorption of C2H4 on the Si() and Ge() surfaces. Surface Science, 2002, 507-510, 12-17.	1.9	32
8	In-rich (4Ã—2) and (2Ã—4) reconstructions of the InAs(001) surface. Surface Science, 2003, 542, 101-111.	1.9	30
9	Methanol adsorption on silicon (001). Surface Science, 2005, 575, 287-299.	1.9	29
10	Role of generalized-gradient approximation in structural and electronic properties of bulk and surface ofÎ²-GaN and GaAs. Physical Review B, 1999, 59, 3008-3014.	3.2	24
11	First-principles pseudopotential study of GaN and BN (110) surfaces. Surface Science, 1999, 426, 75-82.	1.9	24
12	Role of surfactant molecules in magnetic fluid: Comparison of Monte Carlo simulation and electron magnetic resonance. Physical Review E, 2008, 78, 061507.	2.1	24
13	Theoretical studies of the initial stages of Zn adsorption onGaAs(001)â^'(2Ã—4). Physical Review B, 2000, 62, 13623-13630.	3.2	19
14	Oxygen adsorption on CdTe. Surface Science, 2003, 525, 24-32.	1.9	19
15	Size effects on silver nanoparticlesâ€™ properties. Nanotechnology, 2011, 22, 275708.	2.6	19
16	IIIâ€“N(110) surface relaxation and its dependence on the chemical bonding. Solid State Communications, 2000, 115, 67-71.	1.9	17
17	A theoretical study of C2H2 adsorption on the Ge() surface. Surface Science, 2002, 513, 422-430.	1.9	15
18	Acetonitrile adsorption on Si(001). Physical Review B, 2004, 69, .	3.2	14

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19	Phonons on II-VI (110) semiconductor surfaces. Physical Review B, 2000, 62, 15797-15805.	3.2	12
20	Structure, energetics, and vibrational spectra of perylene adsorbed on Si(001): First-principles calculations compared with STM and HREELS. Physical Review B, 2006, 74, .	3.2	12
21	Dissociative adsorption of NF3 on Si(001)-(2Ã—1). Surface Science, 2000, 454-456, 152-156.	1.9	11
22	Phonons on group-III nitride (110) surfaces. Physical Review B, 2002, 66, .	3.2	10
23	Heat Generation in Magnetic Hyperthermia by Manganese Ferrite-Based Nanoparticles Arises from NÃ©el Collective Magnetic Relaxation. ACS Applied Nano Materials, 2022, 5, 7521-7539.	5.0	10
24	Adsorption structure of cyclopentene on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>InP</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>001</mml:mn> Physical Review B, 2009, 80, .	3.2	9
25	First-principles calculations of the adsorption and dissociation of PH3 on Si(0 0 1)-(2Ã—1). Surface Science, 2001, 482-485, 160-165.	1.9	8
26	A comparative study of the interaction of cyclopentene, cyclohexene, and 1,4-cyclohexadiene with the silicon () surface. Surface Science, 2004, 566-568, 713-718.	1.9	8
27	Effects of gradient and non-linear core corrections on structural and electronic properties of GaN bulk and surfaces. Physica B: Condensed Matter, 2000, 292, 97-108.	2.7	7
28	Ab initiostudy of theGaAs(001)â˜In(4Ã—2)surface. Physical Review B, 2003, 67, .	3.2	7
29	Adsorption and decomposition of acetone on Si(001). Applied Surface Science, 2004, 234, 185-189.	6.1	7
30	Adsorption ofNH3on Ge(001). Physical Review B, 2003, 68, .	3.2	5
31	Structure of Zn adsorption on GaAs(001)-(2Ã—4). Applied Physics Letters, 2000, 76, 3735-3737.	3.3	4
32	Thionin adsorption on silicon (1â€‰0â€‰0): Structural analysis. Applied Surface Science, 2006, 253, 1978-1982.	6.1	4
33	A comparative study of ethylene oxide and diethylene dioxide adsorption on silicon (001). Surface Science, 2007, 601, 2576-2579.	1.9	4
34	Comparative study of the adsorption and dissociation of vinylacetic acid and acrylic acid on silicon (001). Physical Review B, 2008, 77, .	3.2	4
35	The role of generalised gradient approximation in structural and electronic properties of bulk and surface of Î²-GaN and GaAs. Surface Science, 1999, 433-435, 377-381.	1.9	3
36	Concentration effects on the grafting of magnetic nanoparticles by Monte Carlo simulations. Journal of Applied Physics, 2006, 99, 08S101.	2.5	3

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37	The role of carbon impurities on the Si(0 0 1)-c(4 Ã— 4) surface reconstruction: Theoretical calculations. Surface Science, 2009, 603, 1229-1235.	1.9	3
38	Semiconductor nanoparticle modeling via density functional theory. Journal of Physics Condensed Matter, 2011, 23, 045001.	1.8	3
39	Maleic anhydride adsorption on silicon (001). Journal of Chemical Physics, 2005, 123, 074708.	3.0	2
40	Phonons on GaN(110). Applied Physics Letters, 2002, 80, 3322-3324.	3.3	1
41	Zn-induced features at the GaAs(110) surface: a first-principles study. Vacuum, 2002, 67, 31-35.	3.5	1
42	Mono-disperse ferrofluids clusterization: a Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2005, 289, 230-233.	2.3	1
43	Furan interaction with the Si(001)-(2 Ã— 2) surface: structural, energetics, and vibrational spectra from first-principles. Journal of Physics Condensed Matter, 2009, 21, 055006.	1.8	1
44	A comparative study of surface phonons on CdTe(1 1 0) and InSb(1 1 0). Surface Science, 2001, 482-485, 580-586.	1.9	0
45	Zn-induced features at the GaAs(110) surface and its importance in the growth of ZnSe on GaAs(110). Applied Physics Letters, 2002, 81, 481-483.	3.3	0
46	A New Approach to the Prediction of Partition Coefficients in Water/Organic Interfaces. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1115-1119.	0.4	0
47	Driving forces for the adsorption of cyclopentene on InP(001). Surface Science, 2011, 605, 824-830.	1.9	0
48	Sulfur Radicals as Tethers for the Adsorption of Aromatic Molecules on Silicon Surface. Journal of Computational and Theoretical Nanoscience, 2012, 9, 541-548.	0.4	0