Antonio Sindona

List of Publications by Year
in descending order

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68 papers	975 citations	430442 18 h-index	500791 28 g-index
68 all docs	68 docs citations	68 times ranked	873 citing authors

#	Article	IF	Citations
1	Plasmon oscillations in two-dimensional arrays of ultranarrow graphene nanoribbons. Physical Review B, 2019, 100, .	1.1	13
2	Absence of reionization in low-energy Na+ scattering from Al surfaces. Physical Review A, 2018, 97, .	1.0	7
3	Interband <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math> -like plasmon in silicene grown on silver. Physical Review B, 2018, 97, .	1.1	10
4	Scattering Resonances in bilayer graphene. Journal of Physics: Conference Series, 2018, 987, 012030.	0.3	0
5	Local charge exchange of He+ ions at Aluminum surfaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1174-1176.	0.9	21
6	Plasmon properties and hybridization effects in silicene. Physical Review B, 2017, 95, .	1.1	29
7	Signatures of the single-particle mobility edge in the ground-state properties of Tonks-Girardeau and noninteracting Fermi gases in a bichromatic potential. Physical Review A, 2017, 95, .	1.0	13
8	Calibration of the fine-structure constant of graphene by time-dependent density-functional theory. Physical Review B, 2017, 96, .	1.1	24
9	Ab initio modelling of dielectric screening and plasmon resonances in extrinsic silicene. , 2016, , .		0
10	Plasmon Modes of Graphene Nanoribbons with Periodic Planar Arrangements. Physical Review Letters, 2016, 117, 116801.	2.9	52
11	Double electron excitation in He ions interacting with an aluminum surface. Physical Review A, 2016, 93, .	1.0	10
12	Dielectric screening and plasmon resonances in bilayer graphene. Physical Review B, 2016, 93, .	1.1	27
13	Evidence for charge exchange effects in electronic excitations in Al by slow singly charged He ions. Nuclear Instruments & Methods in Physics Research B, 2016, 382, 7-10.	0.6	14
14	Electrical conductivity of graphene: a time-dependent density functional theory study. , 2015, , .		1
15	Many-qubit quantum state transfer via spin chains. Physica Scripta, 2015, T165, 014036.	1.2	21
16	Spatial dispersion effects upon local excitation of extrinsic plasmons in a graphene micro-disk. Journal Physics D: Applied Physics, 2015, 48, 465104.	1.3	23
17	Comparison of rigorous vs approximate methods for accurate calculation of 2D-materials band structures and applications to THz nanoelectronics. , 2015, , .		1
18	Electromagnetic characterization of graphene and graphene nanoribbons via ab-initio permittivity simulations. , 2015, , .		1

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19	Innovative full wave modeling of plasmon propagation in graphene by dielectric permittivity simulations based on density functional theory. , 2015, , .		5
20	Full-wave techniques for the electromagnetic-quantum transport modeling in nano-devices. , 2014, , .		0
21	Statistics of the work distribution for a quenched Fermi gas. New Journal of Physics, 2014, 16, 045013.	1.2	40
22	Advanced techniques for the band structure-quantum transport modeling in graphene and 2D-materials beyond graphene. , 2014, , .		0
23	Acoustic plasmons in extrinsic free-standing graphene. New Journal of Physics, 2014, 16, 083003.	1.2	53
24	Electronic structure of epitaxial graphene grown on stepped Pt(997). Physical Review B, 2014, 89, .	1.1	10
25	Probing graphene interfaces with secondary electrons. Carbon, 2014, 77, 796-802.	5.4	23
26	A comparative study of the plasmonic properties of graphene on lattice-matched and lattice-mismatched Ni surfaces. Surface Science, 2014, 626, 40-43.	0.8	15
27	Dynamic core hole screening in small-diameter conducting carbon nanotubes: A cluster density functional study. Thin Solid Films, 2013, 543, 41-47.	0.8	1
28	Orthogonality Catastrophe and Decoherence in a Trapped-Fermion Environment. Physical Review Letters, 2013, 111, 165303.	2.9	45
29	Coreâ€“hole effects in fullerene molecules and small-diameter conducting nanotubes: a density functional theory study. Journal of Physics Condensed Matter, 2013, 25, 115301.	0.7	5
30	High Energy Excited States of Graphene Adsorbed on Ni(111). Nanoscience and Nanotechnology Letters, 2013, 5, 1191-1194.	0.4	1
31	Decoherence in a Fermion Environment: Non-Markovianity and Orthogonality Catastrophe. Open Systems and Information Dynamics, 2013, 20, 1340005.	0.5	3
32	Quantum-state transfer via resonant tunneling through local-field-induced barriers. Physical Review A, 2013, 87, .	1.0	64
33	Primary energy dependence of secondary electron emission from graphene adsorbed on Ni(111). Applied Physics Letters, 2012, 101, .	1.5	20
34	Studies of Electron Emission in the Interaction of Electrons with Graphene on Ni(111) Surface. Nanoscience and Nanotechnology Letters, 2012, 4, 1100-1103.	0.4	13
35	Cluster and Periodic Density Functional Study of Auger Electron Emission from Conducting Carbon Nanotubes. Nanoscience and Nanotechnology Letters, 2012, 4, 1050-1055.	0.4	13
36	Secondary Electron Spectra of Graphene on Ni(111) Surface. Journal of Nanoscience and Nanotechnology, 2011, 11, 9256-9259.	0.9	3

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37	Wave packet evolution of the valence state of a hyperthermal sodium ion impinging on a copper surface. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 938-942.	0.6	4
38	Molecular dynamics study of kinetic electron emission induced by slow sodium ions incident on gold surfaces. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 981-984.	0.6	2
39	Role of Many Body Shake-Up in Core-Valence-Valence Electron Emission from Single Wall Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 9143-9152.	0.9	7
40	Many-Body Effects in Auger Electron Emission from Finite-Length Carbon Nanotubes. Nanoscience and Nanotechnology Letters, 2011, 3, 835-840.	0.4	2
41	Wave-packet study of hyperthermal alkali ion neutralization at metal surfaces. Vacuum, 2010, 84, 1038-1042.	1.6	8
42	Electron excitation in the interaction of slow ions and electrons with metals and monolayer graphite on Ni(111) surfaces. Vacuum, 2010, 84, 1029-1032.	1.6	11
43	Charge transfer in single and multiple scattering events at metal surfaces: a wavepacket study of the Na⁺Cu(100) system. Journal of Physics Condensed Matter, 2010, 22, 475004.	0.7	5
44	Entanglement in a spin system with inverse square statistical interaction. New Journal of Physics, 2010, 12, 025022.	1.2	22
45	Secondary electron emission spectra from clean and cesiated Al surfaces: the role of plasmon decay and data analysis for applications. Journal of Physics Condensed Matter, 2010, 22, 305004.	0.7	18
46	Observation of excited states of graphene on Ni(111) by secondary electron spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	14
47	Double resonant neutralization in hyperthermal energy alkali ion scattering at clean metal surfaces. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 578-583.	0.6	5
48	Kinetic electron emission from metal surfaces by slow Na+ ions. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1721-1724.	0.6	3
49	Nitrogen doping of single walled carbon nanotubes by low energy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>N</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> ion implantation. Carbon, 2008, 46, 1489-1496.	5.4	90
50	Kinetic electron emission from Al surfaces by slow ions. Physical Review B, 2007, 75, .	1.1	23
51	Auger electron emission from metals induced by low energy ion bombardment: Effect of the band structure and Fermi edge singularity. Surface Science, 2007, 601, 1205-1211.	0.8	11
52	Many body shake up in X-ray photoemission from bundles of lithium-intercalated single-walled carbon nanotubes. Surface Science, 2007, 601, 2805-2809.	0.8	13
53	The role of atomic collisions in kinetic electron emission from Al surfaces by slow ions. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 474-477.	0.6	8
54	Wave packet study of the secondary emission of negatively charged, monoatomic ions from sputtered metals. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 226-229.	0.6	2

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55	Fermi edge singularities in ion-induced electron emission from plane metal surfaces. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 438-441.	0.6	5
56	The role of Al-Auger electrons in kinetic electron emission from Al surfaces by slow Ne+ and Na+ ions. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 618-622.	0.6	7
57	Negative ionization of the secondary ions of silver and gold sputtered from their elemental surfaces. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 468-473.	0.6	3
58	Electron emission in the interaction of 300eV Na+ ions with Al surfaces. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 96-98.	0.6	1
59	Broadening effects in Auger neutralization of 130â€“430eV Ar+ ions at Al surfaces. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 298-304.	0.6	6
60	Resonant mechanisms for negative ionization of secondary emitted atoms from sputtered metals. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 449-454.	0.6	4
61	Many-body shake-up in Auger neutralization of slowAr+ions at Al surfaces. Physical Review A, 2005, 71, .	1.0	14
62	Kinetic electron excitation in the interaction of slowKr+ions with Al surfaces. Physical Review B, 2005, 72, .	1.1	17
63	Quantitative analysis of coupling effects in cross-flow membrane emulsification. Journal of Membrane Science, 2004, 229, 199-209.	4.1	45
64	Sub-threshold plasmon excitation in free-electron metals by helium ions. Nuclear Instruments & Methods in Physics Research B, 2003, 209, 68-72.	0.6	9
65	Bulk and surface plasmon excitation in the interaction of He+ with Mg surfaces. Nuclear Instruments & Methods in Physics Research B, 2003, 212, 339-345.	0.6	16
66	Evidences of a double resonant ionization mechanism in sputtering of metals. Surface Science, 2003, 529, 471-489.	0.8	9
67	Surface influences on resonant ionization during sputtering. Nuclear Instruments & Methods in Physics Research B, 1999, 157, 75-81.	0.6	2
68	Deep level promotion mechanism in sputtering. Surface Science, 1999, 423, 99-116.	0.8	8