

# 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	Nitrogen doping of single walled carbon nanotubes by low energy $\text{N}^+$ ion implantation. Carbon, 2008, 46, 1489-1496.	5.4	90
2	Quantum-state transfer via resonant tunneling through local-field-induced barriers. Physical Review A, 2013, 87, .	1.0	64
3	Acoustic plasmons in extrinsic free-standing graphene. New Journal of Physics, 2014, 16, 083003.	1.2	53
4	Plasmon Modes of Graphene Nanoribbons with Periodic Planar Arrangements. Physical Review Letters, 2016, 117, 116801.	2.9	52
5	Quantitative analysis of coupling effects in cross-flow membrane emulsification. Journal of Membrane Science, 2004, 229, 199-209.	4.1	45
6	Orthogonality Catastrophe and Decoherence in a Trapped-Fermion Environment. Physical Review Letters, 2013, 111, 165303.	2.9	45
7	Statistics of the work distribution for a quenched Fermi gas. New Journal of Physics, 2014, 16, 045013.	1.2	40
8	Plasmon properties and hybridization effects in silicene. Physical Review B, 2017, 95, .	1.1	29
9	Dielectric screening and plasmon resonances in bilayer graphene. Physical Review B, 2016, 93, .	1.1	27
10	Calibration of the fine-structure constant of graphene by time-dependent density-functional theory. Physical Review B, 2017, 96, .	1.1	24
11	Kinetic electron emission from Al surfaces by slow ions. Physical Review B, 2007, 75, .	1.1	23
12	Probing graphene interfaces with secondary electrons. Carbon, 2014, 77, 796-802.	5.4	23
13	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
14	Entanglement in a spin system with inverse square statistical interaction. New Journal of Physics, 2010, 12, 025022.	1.2	22
15	Many-qubit quantum state transfer via spin chains. Physica Scripta, 2015, T165, 014036.	1.2	21
16	Local charge exchange of He <sup>+</sup> ions at Aluminum surfaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1174-1176.	0.9	21
17	Primary energy dependence of secondary electron emission from graphene adsorbed on Ni(111). Applied Physics Letters, 2012, 101, .	1.5	20
18	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

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19	Kinetic electron excitation in the interaction of slow Kr <sup>+</sup> ions with Al surfaces. <i>Physical Review B</i> , 2005, 72, .	1.1	17
20	Bulk and surface plasmon excitation in the interaction of He <sup>+</sup> with Mg surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 212, 339-345.	0.6	16
21	A comparative study of the plasmonic properties of graphene on lattice-matched and lattice-mismatched Ni surfaces. <i>Surface Science</i> , 2014, 626, 40-43.	0.8	15
22	Many-body shake-up in Auger neutralization of slow Ar <sup>+</sup> ions at Al surfaces. <i>Physical Review A</i> , 2005, 71, .	1.0	14
23	Observation of excited states of graphene on Ni(111) by secondary electron spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	14
24	Evidence for charge exchange effects in electronic excitations in Al by slow singly charged He ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 382, 7-10.	0.6	14
25	Many body shake up in X-ray photoemission from bundles of lithium-intercalated single-walled carbon nanotubes. <i>Surface Science</i> , 2007, 601, 2805-2809.	0.8	13
26	Studies of Electron Emission in the Interaction of Electrons with Graphene on Ni(111) Surface. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 1100-1103.	0.4	13
27	Signatures of the single-particle mobility edge in the ground-state properties of Tonks-Girardeau and noninteracting Fermi gases in a bichromatic potential. <i>Physical Review A</i> , 2017, 95, .	1.0	13
28	Plasmon oscillations in two-dimensional arrays of ultranarrow graphene nanoribbons. <i>Physical Review B</i> , 2019, 100, .	1.1	13
29	Cluster and Periodic Density Functional Study of Auger Electron Emission from Conducting Carbon Nanotubes. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 1050-1055.	0.4	13
30	Auger electron emission from metals induced by low energy ion bombardment: Effect of the band structure and Fermi edge singularity. <i>Surface Science</i> , 2007, 601, 1205-1211.	0.8	11
31	Electron excitation in the interaction of slow ions and electrons with metals and monolayer graphite on Ni(111) surfaces. <i>Vacuum</i> , 2010, 84, 1029-1032.	1.6	11
32	Electronic structure of epitaxial graphene grown on stepped Pt(997). <i>Physical Review B</i> , 2014, 89, .	1.1	10
33	Double electron excitation in He ions interacting with an aluminum surface. <i>Physical Review A</i> , 2016, 93, .	1.0	10
34	Interband $\tilde{\epsilon}$ -like plasmon in silicene grown on silver. <i>Physical Review B</i> , 2018, 97, .	1.1	10
35	Sub-threshold plasmon excitation in free-electron metals by helium ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 209, 68-72.	0.6	9
36	Evidences of a double resonant ionization mechanism in sputtering of metals. <i>Surface Science</i> , 2003, 529, 471-489.	0.8	9

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37	Deep level promotion mechanism in sputtering. <i>Surface Science</i> , 1999, 423, 99-116.	0.8	8
38	The role of atomic collisions in kinetic electron emission from Al surfaces by slow ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 256, 474-477.	0.6	8
39	Wave-packet study of hyperthermal alkali ion neutralization at metal surfaces. <i>Vacuum</i> , 2010, 84, 1038-1042.	1.6	8
40	The role of Al-Auger electrons in kinetic electron emission from Al surfaces by slow Ne <sup>+</sup> and Na <sup>+</sup> ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 257, 618-622.	0.6	7
41	Role of Many Body Shake-Up in Core-Valence-Valence Electron Emission from Single Wall Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 9143-9152.	0.9	7
42	Absence of reionization in low-energy Na <sup>+</sup> scattering from Al surfaces. <i>Physical Review A</i> , 2018, 97, .	1.0	7
43	Broadening effects in Auger neutralization of 130-430eV Ar <sup>+</sup> ions at Al surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 230, 298-304.	0.6	6
44	Fermi edge singularities in ion-induced electron emission from plane metal surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 257, 438-441.	0.6	5
45	Double resonant neutralization in hyperthermal energy alkali ion scattering at clean metal surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 578-583.	0.6	5
46	Charge transfer in single and multiple scattering events at metal surfaces: a wavepacket study of the Na <sup>+</sup> /Cu(100) system. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 475004.	0.7	5
47	Core-hole effects in fullerene molecules and small-diameter conducting nanotubes: a density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115301.	0.7	5
48	Innovative full wave modeling of plasmon propagation in graphene by dielectric permittivity simulations based on density functional theory. , 2015, , .		5
49	Resonant mechanisms for negative ionization of secondary emitted atoms from sputtered metals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 230, 449-454.	0.6	4
50	Wave packet evolution of the valence state of a hyperthermal sodium ion impinging on a copper surface. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 938-942.	0.6	4
51	Negative ionization of the secondary ions of silver and gold sputtered from their elemental surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 256, 468-473.	0.6	3
52	Kinetic electron emission from metal surfaces by slow Na <sup>+</sup> ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 1721-1724.	0.6	3
53	Secondary Electron Spectra of Graphene on Ni(111) Surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 9256-9259.	0.9	3
54	Decoherence in a Fermion Environment: Non-Markovianity and Orthogonality Catastrophe. <i>Open Systems and Information Dynamics</i> , 2013, 20, 1340005.	0.5	3

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55	Surface influences on resonant ionization during sputtering. Nuclear Instruments & Methods in Physics Research B, 1999, 157, 75-81.	0.6	2
56	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
57	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
58	Many-Body Effects in Auger Electron Emission from Finite-Length Carbon Nanotubes. Nanoscience and Nanotechnology Letters, 2011, 3, 835-840.	0.4	2
59	Electron emission in the interaction of 300eV Na <sup>+</sup> ions with Al surfaces. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 96-98.	0.6	1
60	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
61	High Energy Excited States of Graphene Adsorbed on Ni(111). Nanoscience and Nanotechnology Letters, 2013, 5, 1191-1194.	0.4	1
62	Electrical conductivity of graphene: a time-dependent density functional theory study. , 2015, , .		1
63	Comparison of rigorous vs approximate methods for accurate calculation of 2D-materials band structures and applications to THz nanoelectronics. , 2015, , .		1
64	Electromagnetic characterization of graphene and graphene nanoribbons via ab-initio permittivity simulations. , 2015, , .		1
65	Full-wave techniques for the electromagnetic-quantum transport modeling in nano-devices. , 2014, , .		0
66	Advanced techniques for the band structure-quantum transport modeling in graphene and 2D-materials beyond graphene. , 2014, , .		0
67	Ab initio modelling of dielectric screening and plasmon resonances in extrinsic silicene. , 2016, , .		0
68	Scattering Resonances in bilayer graphene. Journal of Physics: Conference Series, 2018, 987, 012030.	0.3	0