

Rosa Carmina Monreal

List of Publications by Year in descending order

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89
papers

2,383
citations

186265
28
h-index

223800
46
g-index

90
all docs

90
docs citations

90
times ranked

1399
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical implications of ion-surface energy accommodation and neutralization mechanism in hollow cathode physics. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	7
2	Electron-phonon interaction in the dynamics of trap filling in quantum dots. <i>Physical Review B</i> , 2021, 104, .	3.2	3
3	Quantum-size effects in visible defect photoluminescence of colloidal ZnO quantum dots: a theoretical analysis. <i>Nanoscale</i> , 2018, 10, 7016-7025.	5.6	5
4	Infrared Absorption and Hot Electron Production in Low-Electron-Density Nanospheres: A Look at Real Systems. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 524-530.	4.6	4
5	Diffuse Surface Scattering and Quantum Size Effects in the Surface Plasmon Resonances of Low-Carrier-Density Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5074-5082.	3.1	12
6	Transient dynamics and waiting time distribution of molecular junctions in the polaronic regime. <i>Physical Review B</i> , 2015, 92, .	3.2	56
7	Diffuse Surface Scattering in the Plasmonic Resonances of Ultralow Electron Density Nanospheres. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1847-1853.	4.6	12
8	Surface scattering contribution to the plasmon width in embedded Ag nanospheres. <i>Optics Express</i> , 2014, 22, 24994.	3.4	19
9	Dressed tunneling approximation for electronic transport through molecular transistors. <i>Physical Review B</i> , 2014, 89, .	3.2	29
10	Auger neutralization and ionization processes for charge exchange between slow noble gas atoms and solid surfaces. <i>Progress in Surface Science</i> , 2014, 89, 80-125.	8.3	47
11	Effects of the atomic level shift in the Auger neutralization rates of noble metal surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 315, 206-212.	1.4	11
12	Auger neutralization of He ⁺ on Cu surfaces: Simulation of azimuthal scans. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 317, 23-27.	1.4	4
13	Competition between surface screening and size quantization for surface plasmons in nanoparticles. <i>New Journal of Physics</i> , 2013, 15, 083044.	2.9	85
14	Quasi-resonant neutralization of He ⁺ ions at a germanium surface. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 485006.	1.8	10
15	Long transient dynamics in the Anderson-Holstein model out of equilibrium. <i>Physical Review B</i> , 2013, 87, .	3.2	40
16	Electromagnetic absorption mechanisms in metal nanospheres: Bulk and surface effects in radiofrequency-terahertz heating of nanoparticles. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	59
17	Calculation of Auger-neutralization probabilities for He ⁺ ions in LEIS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 1296-1299.	1.4	11
18	Band structure effects in Auger neutralization of He ions at metal surfaces. <i>Physical Review B</i> , 2011, 84, .	3.2	21

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19	Nonequilibrium transport in molecular junctions with strong electron-phonon interactions. <i>Physical Review B</i> , 2010, 82, .	3.2	17
20	Ionization of He atoms during grazing scattering from a metal surface. <i>Physical Review B</i> , 2009, 79, .	3.2	9
21	Effect of spin polarization of Ni(110) surface on Auger neutralization for grazing scattering of He ⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 571-574.	1.4	4
22	Equation of motion approach to the Anderson-Holstein Hamiltonian. <i>Physical Review B</i> , 2009, 79, .	3.2	22
23	Face-dependent Auger neutralization and ground-state energy shift for He in front of Al surfaces. <i>Physical Review B</i> , 2008, 78, .	3.2	28
24	Dynamical Auger charge transfer of noble gas atoms and metal surfaces. <i>Physical Review B</i> , 2008, 78, .	3.2	13
25	Interpolative approach for electron-electron and electron-phonon interactions: From the Kondo to the polaronic regime. <i>Physical Review B</i> , 2008, 78, .	3.2	27
26	Azimuth-dependent Auger neutralization of He ⁺ on Ag(111) and (110) surfaces. <i>Physical Review B</i> , 2007, 75, .	3.2	24
27	Hybridization effects on the Auger neutralization process of He ⁺ on Ag(110) surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 6-10.	1.4	2
28	Electron Emission from Surfaces Mediated by Ion-Induced Plasmon Excitation. , 2007, , 185-211.		2
29	Role of Electrons in Auger Neutralization at Metal Surfaces. <i>Physical Review Letters</i> , 2006, 97, 047601.	7.8	36
30	He ⁺ scattering on clean and oxygen covered Al(111). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 232, 27-31.	1.4	6
31	Stationary and dynamical descriptions of strong correlated systems. <i>Physical Review B</i> , 2005, 71, .	3.2	27
32	Kondo resonance decoherence caused by an external potential. <i>Physical Review B</i> , 2005, 72, .	3.2	23
33	Linear combination of atomic orbitals calculation of the Auger neutralization rate of He ⁺ on Al(111), (100), and (110) surfaces. <i>Physical Review B</i> , 2005, 71, .	3.2	34
34	Auger neutralization of He ions on Ag surfaces: surface type and azimuthal orientation dependence. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2367-2373.	1.5	11
35	Charge Exchange Processes in Low Energy Ion-Metal Collisions. <i>Advances in Quantum Chemistry</i> , 2004, 45, 175-199.	0.8	19
36	Surface Miller Index Dependence of Auger Neutralization of Ions on Surfaces. <i>Physical Review Letters</i> , 2004, 92, 017601.	7.8	50

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37	On Auger neutralization of He ⁺ ions on a Ag(111) surface. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1165-1171.	1.8	32
38	Interference between resonant and Auger mechanisms for charge-exchange processes near surfaces. <i>Physical Review B</i> , 2003, 67, .	3.2	19
39	Low-energy ion neutralization at surfaces: Resonant and Auger processes. <i>Physical Review A</i> , 2001, 64, .	2.5	77
40	A new proposal to solve the time-dependent infinite-U Anderson model applied to ion-induced surface scattering processes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 182, 49-55.	1.4	2
41	Probing inelastic interactions of ions moving in solids by electron spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 164-165, 879-885.	1.4	1
42	Quantum-mechanical time-dependent calculation for Auger processes in the volume of metals. <i>Physical Review B</i> , 2000, 61, 13565-13572.	3.2	7
43	Mechanisms for ion-induced plasmon excitation in metals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 157, 110-115.	1.4	10
44	New model for ion neutralization at surfaces. <i>Surface Science</i> , 1999, 440, L875-L880.	1.9	49
45	Proton-induced kinetic plasmon excitation in Al and Mg. <i>Physical Review B</i> , 1999, 59, 15506-15512.	3.2	45
46	Role of energy-level shifts on Auger neutralization processes: A calculation beyond the image potential. <i>Physical Review B</i> , 1998, 58, 7385-7390.	3.2	58
47	Self-consistent LDA calculation in ion neutralization at metal surfaces. <i>Surface Science</i> , 1997, 370, 324-338.	1.9	77
48	Electron emission spectra in Auger processes near metal surfaces. <i>Surface Science</i> , 1997, 388, 231-241.	1.9	40
49	Multielectron neutralization channels in ion-surface scattering. <i>Physical Review B</i> , 1996, 53, 9622-9625.	3.2	37
50	Electron emission in the neutralization of multiply-charged ions at low velocities on metal surfaces: the effect of secondary-electron cascades. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 100, 290-295.	1.4	3
51	Theory of circular dichroism in photon STM experiments on magnetic samples. <i>Physical Review B</i> , 1995, 52, 12505-12507.	3.2	8
52	Dynamical screening in Auger processes near metal surfaces. <i>Physical Review B</i> , 1995, 52, 4760-4763.	3.2	55
53	Local theory of Auger neutralization for slow and compact ions interacting with metal surfaces. <i>Physical Review A</i> , 1994, 49, 4716-4725.	2.5	52
54	Neutralization of slow He ²⁺ on metal surfaces: theory for Auger and cascade electron emission. <i>Surface Science</i> , 1994, 303, 253-265.	1.9	19

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55	A theory for Auger neutralization of He+ ions scattered off simple metal surfaces. Nuclear Instruments & Methods in Physics Research B, 1993, 78, 44-48.	1.4	17
56	Magic energies in auger electron spectra. Nuclear Instruments & Methods in Physics Research B, 1993, 83, 459-461.	1.4	8
57	Novel optical superlattices. Physica Scripta, 1993, 47, 697-703.	2.5	1
58	Theory of spin-polarized Auger electrons emitted in metastable He-Cu interaction. Solid State Communications, 1991, 77, 495-497.	1.9	7
59	Theory for photon emission from a scanning tunneling microscope. European Physical Journal B, 1991, 84, 269-275.	1.5	44
60	Charge exchange and energy loss of particles interacting with surfaces. Physical Review B, 1991, 44, 2003-2018.	3.2	69
61	Energy loss of light ions and neutrals from surface scattering. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 378-381.	1.4	24
62	Charge exchange and energy dissipation of particles interacting with metal surfaces. Physical Review Letters, 1990, 64, 1601-1604.	7.8	69
63	Theory for light emission from a scanning tunneling microscope. Physical Review B, 1990, 42, 9210-9213.	3.2	293
64	Electromagnetic-field-enhanced desorption of atoms. Physical Review B, 1990, 41, 7852-7855.	3.2	37
65	Molecular orbital theory for chemisorption and physisorption: The case of He on metals. Physical Review B, 1989, 39, 5684-5693.	3.2	58
66	The influence of the multiply charged ion velocity on electron emission. Nuclear Instruments & Methods in Physics Research B, 1989, 42, 171-174.	1.4	3
67	Crystallographic effects in charge exchange processes: He scattering from Ni(110). Surface Science, 1989, 217, 255-266.	1.9	13
68	Interaction of helium with metal surfaces: A first-principle tight-binding approach. Surface Science, 1989, 211-212, 256-262.	1.9	0
69	Channeling effects in He scattering from Ni(110). Surface Science, 1989, 211-212, 271-278.	1.9	14
70	Inelastic energy loss of low energy He scattered from Ni(110). Radiation Effects and Defects in Solids, 1989, 109, 75-80.	1.2	4
71	Photoluminescence of noble metals. Physica Scripta, 1988, 38, 174-179.	2.5	151
72	Raman scattering from atomic adsorbates. Physica Scripta, 1988, 38, 180-187.	2.5	1

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73	Raman Scattering by Electron-Hole Pairs at Metal Surfaces. Europhysics Letters, 1987, 4, 115-120.	2.0	15
74	Superlattice Optics. Physica Scripta, 1986, 34, 348-352.	2.5	18
75	Electromagnetic properties of small metallic spheres: Diffuse surface scattering. Physical Review B, 1986, 34, 2886-2888.	3.2	2
76	Blue shift of the dipolar plasma resonance in small silver particles on an alumina surface. Physical Review B, 1986, 33, 2828-2830.	3.2	44
77	Relaxation-time effects in the transverse dielectric function and the electromagnetic properties of metallic surfaces and small particles. Physical Review B, 1986, 34, 7365-7366.	3.2	17
78	Far-infrared optical absorption due to surface phonon excitations in small metal particles. Solid State Communications, 1985, 54, 661-663.	1.9	9
79	Quantum-size effects in the electromagnetic response of small spheres. Journal of Physics C: Solid State Physics, 1985, 18, 4951-4956.	1.5	8
80	Quantum size and nonlocal effects in the electromagnetic properties of small metallic spheres. Physical Review B, 1985, 32, 7878-7889.	3.2	9
81	Effective relaxation time in small spheres: Diffuse surface scattering. Solid State Communications, 1984, 52, 971-973.	1.9	21
82	A model simplification of dielectric responses and metal surface electrostatics. Journal De Physique, 1984, 45, 1223-1230.	1.8	1
83	Interface Plasmons at the Boundary of Two Semi-Infinite Electron Gases. Physica Scripta, 1982, 26, 35-44.	2.5	5
84	Reflectivity of Ag layers on Al substrate. Solid State Communications, 1982, 41, 99-101.	1.9	6
85	Surface photoeffect with non specular surface scattering of electrons. Journal De Physique, 1982, 43, 685-689.	1.8	4
86	Non local electrostatics of metal film systems. Journal De Physique, 1982, 43, 901-913.	1.8	7
87	Optical Properties of Non-Ideal Solid Surfaces: Phenomenological Models. Physica Scripta, 1980, 22, 155-164.	2.5	11
88	A phenomenological model for optical properties of dielectric surfaces. Solid State Communications, 1979, 32, 613-616.	1.9	6
89	Spatial dispersion and the optical properties of a vacuum-dielectric interface. Physical Review B, 1977, 15, 5087-5088.	3.2	7