

Raul C Munoz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,253
citations

21
h-index

33
g-index

61
ext. papers

1,312
ext. citations

3.5
avg, IF

3.56
L-index

#	Paper	IF	Citations
59	The breakdown of Moore's law induced by weak Anderson localization and by size effects in nano-scale metallic connectors. <i>Materials Research Express</i> , 2021 , 8, 015026	1.7	2
58	Evidence of weak Anderson localization revealed by the resistivity, transverse magnetoresistance and Hall effect measured on thin Cu films deposited on mica. <i>Scientific Reports</i> , 2021 , 11, 17820	4.9	
57	Size effects and charge transport in metals: Quantum theory of the resistivity of nanometric metallic structures arising from electron scattering by grain boundaries and by rough surfaces. <i>Applied Physics Reviews</i> , 2017 , 4, 011102	17.3	55
56	The effect of electron scattering from disordered grain boundaries on the resistivity of metallic nanostructures. <i>Applied Surface Science</i> , 2015 , 329, 184-196	6.7	17
55	Transverse magnetoresistance induced by electron-surface scattering on thin gold films: Experiment and theory. <i>Applied Surface Science</i> , 2014 , 289, 167-172	6.7	5
54	Electron scattering at surfaces and grain boundaries in thin Au films. <i>Applied Surface Science</i> , 2013 , 273, 315-323	6.7	22
53	Size effects in thin gold films: Discrimination between electron-surface and electron-grain boundary scattering by measuring the Hall effect at 4 K. <i>Applied Physics Letters</i> , 2013 , 102, 051608	3.4	21
52	Resistivity of thin gold films on mica induced by electron-surface scattering: Application of quantitative scanning tunneling microscopy. <i>Applied Surface Science</i> , 2012 , 258, 3393-3404	6.7	12
51	Resistivity of thin gold films on mica induced by electron-surface scattering from a self-affine fractal surface. <i>Journal of Applied Physics</i> , 2011 , 110, 023710	2.5	9
50	Longitudinal magnetoresistance of thin gold films deposited on mica arising from electron-surface scattering. <i>Physical Review B</i> , 2010 , 81,	3.3	14
49	Electron grain boundary scattering and the resistivity of nanometric metallic structures. <i>Physical Review B</i> , 2010 , 82,	3.3	29
48	Size effects on the Hall constant in thin gold films. <i>Journal of Applied Physics</i> , 2010 , 108, 123704	2.5	17
47	Size effects under a strong magnetic field: Hall effect induced by electron-surface scattering on thin gold films deposited onto mica substrates under high vacuum. <i>Physical Review Letters</i> , 2006 , 96, 206803	7.4	21
46	Size effects under a strong magnetic field: transverse magnetoresistance of thin gold films deposited on mica. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 3401-3408	1.8	9
45	Resistivity, transverse magnetoresistance, and Hall voltage induced by electron-surface scattering on thin gold films deposited on mica substrates under high vacuum. <i>Physical Review B</i> , 2006 , 74,	3.3	8
44	Resistivity induced by a rough surface of thin gold films deposited on mica. <i>Journal of Molecular Catalysis A</i> , 2005 , 228, 163-175		15
43	Surface-induced resistivity of CoSi ₂ films and violations of Mathiessen's rule. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L177-L184	1.8	17

42	Surface-induced resistivity of thin metallic films bounded by a rough fractal surface. <i>Physical Review B</i> , 2002 , 66,	3.3	22
41	Surface Roughness and Surface-Induced Resistivity of Thin Gold Films On Mica. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 699, 561		
40	Surface roughness and size effects of thin gold films on mica. <i>Physical Review B</i> , 2000 , 61, 4514-4517	3.3	13
39	Surface roughness and surface-induced resistivity of gold films on mica: Application of quantitative scanning tunneling microscopy. <i>Physical Review B</i> , 2000 , 62, 4686-4697	3.3	52
38	Surface roughness and surface-induced resistivity of gold films on mica: influence of roughness modelling. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 2903-2912	1.8	15
37	Surface roughness and surface-induced resistivity of gold films on mica: influence of the theoretical modelling of electron-surface scattering. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, L379-L385	1.8	7
36	Surface-induced resistivity of gold films on mica: comparison between the classical and the quantum theory. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, L299-L307	1.8	22
35	Control circuit for a scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 1998 , 69, 3259-3267	1.7	7
34	On the magnetic field dependence of the excess electron Hall mobility observed in liquid argon and liquid xenon. <i>Journal of Chemical Physics</i> , 1992 , 97, 8576-8580	3.9	
33	On the application of the Onsager theory to the description of the free-ion yield observed in warm liquids irradiated by γ -rays. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 69, 293-306	1.2	2
32	Performance of a semi-octagonal-shaped uranium/tetramethylpentane calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 301, 445-450	1.2	3
31	A study of the factors affecting the electron lifetime in ultra-pure liquid argon. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 305, 177-186	1.2	37
30	Performance of a uranium/tetramethylpentane calorimeter backed by an iron/scintillator calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 305, 331-343	1.2	10
29	J/ψ and ψ' production at the CERN $p\bar{p}$ collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 256, 112-120	4.2	57
28	Beauty production at the CERN $p\bar{p}$ collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 256, 121-128	4.2	96
27	First observation of the beauty baryon Λ_b in the decay channel $\Lambda_b \rightarrow p/\bar{p} + \Lambda^0$ at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 273, 540-548	4.2	70
26	A search for rare B meson decays at the CERN Spp S collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 262, 163-170	4.2	55
25	Measurement of B_{00} mixing at the CERN Spp S collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 262, 171-178	4.2	27

24	Measurement of the ratio $R = \frac{W_{Br}(W)}{W_{Br}(Z)}$ and W_{tot} at the CERN proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 253, 503-510	4.2	39
23	Limits on t-quark decay into charged Higgs from a direct search at the CERN collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 257, 459-468	4.2	14
22	A study of the D^* content of jets at the CERN p collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 244, 566-572	4.2	9
21	Experimental limit on the decay $W \rightarrow \tau \nu$ at the cern proton-antiproton collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 241, 283-288	4.2	5
20	A study of the electron image due to ionizing events in a two-dimensional liquid argon TPC with a 24 cm drift gap. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990 , 286, 135-146	1.2	15
19	Influence of the electric field on compensation in a uranium/tetramethylpentane hadronic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990 , 292, 113-120	1.2	10
18	Intermittency studies in pp collisions at $\sqrt{s} = 630$ GeV. <i>Nuclear Physics B</i> , 1990 , 345, 1-21	2.8	68
17	A study of ionization electrons drifting over large distances in liquid argon. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 275, 364-372	1.2	50
16	Construction and performance of a position detector for the UA1 uranium-TMP calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 279, 83-90	1.2	10
15	The Hall mobility of excess electrons in 2,2-dimethylbutane, 2,2,4-trimethylpentane, and 2,2,4,4-tetramethylpentane. <i>Journal of Chemical Physics</i> , 1989 , 90, 1128-1132	3.9	29
14	Measurement of the Hall effect in liquid insulators: Challenge and surprises. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1988 , 32, 169-176		1
13	Performance of a uranium/tetramethylpentane electromagnetic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988 , 265, 303-318	1.2	54
12	Pressure induced changes in electron mobility in liquid neopentane and tetramethylsilane near the critical point. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1988 , 32, 49-52		
11	Excess electron mobility in hydrocarbon liquids at high pressure. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 4639-4643		32
10	Measurement of the hall mobility of injected electrons in liquid tetramethylsilane between 22 and 164 °C. <i>Chemical Physics Letters</i> , 1987 , 137, 250-254	2.5	18
9	Luminescence measurements of X-ray absorption spectra: An application of liquid scintillation counting in synchrotron radiation spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986 , 249, 530-535	1.2	8
8	The effect of temperature and pressure on excess electron mobility in n-hexane, 2,2,4-trimethylpentane, and tetramethylsilane. <i>Journal of Chemical Physics</i> , 1986 , 84, 5810-5815	3.9	19
7	Ionization of liquid hydrocarbons and tetramethylsilane by ^{241}Am alpha particles. <i>Journal of Chemical Physics</i> , 1986 , 85, 1104-1115	3.9	18

6	Ionization of tetramethylsilane by alpha particles. <i>Chemical Physics Letters</i> , 1985 , 115, 477-480	2.5	6
5	Delay time experienced by a particle undergoing resonant scattering: The case of the 3D square well. <i>Journal of Chemical Physics</i> , 1985 , 83, 6242-6245	3.9	
4	Effect of high pressure on the electron mobility in liquid n-hexane, 2,2-dimethylbutane, and tetramethylsilane. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 2969-2972		21
3	Motion of electrons in a classical liquid: injected electron Hall mobility in liquid neopentane along the liquid-vapor coexistence line between the triple and the critical point. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 3712-3715		15
2	Measurement of the room-temperature hall mobility of injected electrons in liquid tetramethylsilane. <i>Chemical Physics Letters</i> , 1983 , 94, 235-239	2.5	20
1	Hall Mobility of Electrons Injected into Fluid Neopentane (Dimethyl Propane) along the Liquid-Vapor Coexistence Line between the Triple and the Critical Points. <i>Physical Review Letters</i> , 1983 , 51, 215-218	7.4	24