

Jose Mustre de Leon

List of Publications by Citations

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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.

82

papers

3,908

citations

21

h-index

62

g-index

85

ext. papers

4,006

ext. citations

3.5

avg, IF

4.5

L-index

#	Paper	IF	Citations
82	Theoretical x-ray absorption fine structure standards. <i>Journal of the American Chemical Society</i> , 1991 , 113, 5135-5140	16.4	1520
81	Ab initio curved-wave x-ray-absorption fine structure. <i>Physical Review B</i> , 1991 , 44, 4146-4156	3.3	703
80	Evidence for an axial oxygen-centered lattice fluctuation associated with the superconducting transition in YBa ₂ Cu ₃ O ₇ . <i>Physical Review Letters</i> , 1990 , 65, 1675-1678	7.4	245
79	Off-center displacement of the Nb ions below and above the ferroelectric phase transition of KTa _{0.91} Nb _{0.09} O ₃ . <i>Physical Review B</i> , 1991 , 44, 6700-6707	3.3	138
78	Evidence for a local lattice distortion in Ca-doped LaMnO ₃ . <i>Physical Review B</i> , 1996 , 53, 13985-13988	3.3	128
77	Polaron origin for anharmonicity of the axial oxygen in YBa ₂ Cu ₃ O ₇ . <i>Physical Review Letters</i> , 1992 , 68, 3236-3239	7.4	103
76	Axial oxygen-centered lattice instabilities in YBa ₂ Cu ₃ O ₇ : An application of the analysis of extended x-ray-absorption fine structure in anharmonic systems. <i>Physical Review B</i> , 1992 , 45, 2447-2457	3.3	94
75	Relativistic XANES calculations of Pu hydrates. <i>Physical Review B</i> , 1998 , 57, 7518-7525	3.3	88
74	High-Temperature XAS Study of Fe ₂ SiO ₄ Liquid: Reduced Coordination of Ferrous Iron. <i>Science</i> , 1993 , 262, 229-33	33.3	79
73	Spherical-wave corrections in photoelectron diffraction. <i>Physical Review B</i> , 1989 , 39, 5632-5639	3.3	71
72	Grazing incidence XAFS spectroscopy of uranyl sorbed onto TiO ₂ rutile surfaces. <i>New Journal of Chemistry</i> , 2003 , 27, 648-655	3.6	64
71	Analysis of experimental extended x-ray-absorption fine-structure (EXAFS) data using calculated curved-wave, multiple-scattering EXAFS spectra. <i>Physical Review B</i> , 1990 , 42, 10843-10851	3.3	62
70	X-ray photoelectron diffraction at high angular resolution. <i>Physical Review B</i> , 1987 , 35, 9859-9862	3.3	42
69	Correlation between axial-oxygen anharmonicity and T _c in YBa ₂ Cu ₃ O ₇ and related compounds. <i>Physical Review B</i> , 1991 , 44, 2422-2425	3.3	39
68	Single scattering curved wave XAFS code. <i>Physica B: Condensed Matter</i> , 1989 , 158, 417-418	2.8	38
67	Characterization of a split axial-oxygen site in TlBa ₂ Ca ₃ Cu ₄ O ₁₁ by extended x-ray-absorption fine-structure spectroscopy. <i>Physical Review B</i> , 1991 , 44, 9480-9485	3.3	35
66	Possible Bose-condensate behavior in a quantum phase originating in a collective excitation in the chemically and optically doped Mott-Hubbard system UO _{2+x} . <i>Physical Review B</i> , 2013 , 88,	3.3	34

65	Correlation-function analysis of nonlinear and nonadiabatic systems: Polaron tunneling. <i>Physical Review B</i> , 1995 , 51, 8878-8891	3.3	31
64	Signatures of mesoscopic Jahn-Teller polaron inhomogeneities in high-temperature superconductors. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L169-L175	1.8	30
63	Dynamic polaron tunneling in YBa ₂ Cu ₃ O ₇ : Optical response and inelastic neutron scattering. <i>Physical Review B</i> , 1994 , 49, 3671-3674	3.3	24
62	Local lattice structure change in PrNiO ₃ across the metal-insulator transition: X-ray absorption near-edge structure spectroscopy and ab initio calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	22
61	Local structure fluctuations as a signature of an inhomogeneous ground state in high-T _c superconductors. <i>Journal of Synchrotron Radiation</i> , 2005 , 12, 193-6	2.4	19
60	Local phase separation in Tl-based oxide superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1997 , 10, 329-332		18
59	Observation of a Photoinduced Lattice Relaxation in CdTe:In. <i>Physical Review Letters</i> , 1999 , 83, 3446-3449	2.4	18
58	Planar oxygen-centered lattice instabilities in Tl-based high- temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 220, 377-382	1.3	18
57	Relative importance of recent improvements in the modelling of substrate X-ray photoelectron diffraction - Ni 2p _{3/2} emission from Ni(001). <i>Physica Scripta</i> , 1990 , 41, 990-995	2.6	18
56	Reply to "Comment on 'Axial oxygen-centered lattice instabilities in YBa ₂ Cu ₃ O ₇ : An application of the analysis of extended x-ray-absorption fine structure in anharmonic systems'". <i>Physical Review B</i> , 1993 , 47, 12322-12324	3.3	16
55	Local atomic structure and analysis of secondary phases in non-stoichiometric Cu ₂ ZnSnS ₄ using X-ray absorption fine structure spectroscopy. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 381-389	5.7	11
54	Influence of the local atomic structure in the X-ray absorption near edge spectroscopy of neptunium oxo ions. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10396-402	3.6	10
53	Evidence for a Local Structural Change in La ₂ CuO _{4.1} Across the Superconducting Transition. <i>Journal of Superconductivity and Novel Magnetism</i> , 2002 , 15, 355-360		10
52	Isotopic substitution in a model polaronic system. <i>Physical Review B</i> , 1999 , 59, 8359-8362	3.3	10
51	Crystal structure versus solution for two new lutetium thiocyanato complexes. <i>New Journal of Chemistry</i> , 2011 , 35, 2755	3.6	9
50	Direct observation of a lattice instability in heavily In-doped CdTe. <i>Physical Review B</i> , 1997 , 55, 7629-7633	3.3	9
49	Local distortions of the Tl-O layers in Tl-based high-temperature superconductors. <i>Physical Review B</i> , 1994 , 50, 3356-3362	3.3	8
48	A flexible method for fitting EXAFS spectra application to structural phase transitions. <i>Physica B: Condensed Matter</i> , 1989 , 158, 263-267	2.8	8

47	Local atomic environment of Cu: CdTe thin film alloys. <i>Microelectronics Journal</i> , 2000 , 31, 429-431	1.8	7
46	Local atomic structure of CdTe:In at high In concentrations. <i>Physical Review B</i> , 2000 , 61, 7428-7432	3.3	7
45	Chemical Bonding and Electronic Structure in CdS/GO and CdSSe/GO Multilayer Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13918-13924	3.8	6
44	Inhomogeneous Electronic Structure of FeTe _{1-x} Se _x Revealed by X-ray Absorption Near Edge Structure. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 1035-1040	1.5	6
43	X-ray Absorption Spectroscopy Probing the Local Structure Changes at the Tetragonal-Orthorhombic Transition in LnOFeAs Pnictides. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 579-583	1.5	6
42	Experimental Speciation of Plutonium(IV) in Natural Seawater. <i>ChemistrySelect</i> , 2018 , 3, 2021-2024	1.8	5
41	Interpretation of X-ray absorption spectra of As(III) in solution using Monte Carlo simulations. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10967-73	2.8	5
40	Effect of rare earth substitution in the density of electronic states of LnOFeAs. <i>Journal of Applied Physics</i> , 2012 , 111, 112631	2.5	5
39	Testing Polaron Coherence and the Pairing Symmetry in Cuprate Superconductors by Local Probe Methods. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 295-299	1.5	5
38	Effect of Uniaxial Pressure on the Isotope Effect on the Spectrum of Hamiltonians with Electron-Phonon Coupling. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007 , 20, 603-608	1.5	5
37	Change of the in-plane Cu-O bond distribution in La ₂ CuO _{4.1} across. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2288-2291	3.9	5
36	Local atomic structure of partially ordered NiMn in NiMn/NiFe exchange-coupled layers: 2. Electronic structure calculations. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10419-28	3.4	5
35	Local atomic structure around iodine in ZnSe:I. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 82, 151-157	6.4	5
34	The Local Structure of High-Temperature Superconductors. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 573	1.4	5
33	X-ray accelerated photo-oxidation of As(III) in solution. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 2829-338		4
32	Microstrain and polaronic correlation in a model system. <i>Journal of Physics: Conference Series</i> , 2008 , 108, 012020	0.3	4
31	Atomic Local Structure around Cu in Cu _x Cd _{1-x} Te Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 220, 227-231	1.3	4
30	Local atomic structure and lattice defect analysis in heavily Co-doped ZnS thin films using X-ray absorption fine structure spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 136, 109154	3.9	4

29	($\text{Cu}_2\text{ZnSnS}_4$) thin films prepared with a Joule-heated graphite closed-space sulfurization system. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	3
28	Effect of local atomic phase separation in the x-ray absorption near edge structure spectroscopy of FeSe x Te $1\bar{x}$. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 84, 80-84	3.9	3
27	Characterization of an Electronic Excitation on a Peierls-Hubbard Hamiltonian for a Small Cluster. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 991-994	1.5	3
26	Local structural characterization of Zn: Cd: Se ternary semiconductors. <i>Thin Solid Films</i> , 2005 , 490, 165-167	2.2	3
25	Polaronic Signatures in Phonon Isotopic Shifts. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 220, 499-502	2.3	3
24	Local structure of $\text{Tl}_2(\text{Ba}_{1-x}\text{Sr}_x)_2\text{CuO}_6$ ($x = 0.0, 0.4, 0.5$) studied by X-ray absorption spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 219, 371-377	1.3	3
23	Efficient excited state exchange-correlation potentials. <i>Physica B: Condensed Matter</i> , 1989 , 158, 413-414	2.8	3
22	Asymmetry of the splitting of the fluorescence spectrum of Cr^{3+} in GdAlO_3 . <i>Solid State Communications</i> , 1983 , 46, 841-845	1.6	3
21	Multivalence states and optical band-tail effect in heavily V-doped ZnS thin films. <i>Materials Letters</i> , 2019 , 257, 126774	3.3	2
20	Tris(tetra-butyl-ammonium) tris-(nitrate- O)tetra-kis-(thio-cyanato- N)thorium(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, m487		2
19	Antiferromagnetic stripe ordering at the tetragonal-orthorhombic transition in LnOFeAs probed by X-ray absorption spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1118-1122	3.9	2
18	Local Atomic Structure Of Cdse Ultra-Thin Quantum Wells Examined By X-Ray Absorption Fine Structure Experiments. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
17	X-ray absorption LIII and MV edges of hexavalent lower actinides. <i>Comptes Rendus De L'Academie Des Sciences - Series Ilc: Chemistry</i> , 2000 , 3, 327-333		2
16	Mustre de Leon et al. reply. <i>Physical Review Letters</i> , 1995 , 75, 584	7.4	2
15	Upper limits to fusion rates of isotopic hydrogen molecules in Pd. <i>Physical Review C</i> , 1990 , 41, 2544-2547	2.7	2
14	Calculation of X-ray absorption structure above K-edge of laser shock-compressed aluminum. <i>Laser and Particle Beams</i> , 1990 , 8, 319-325	0.9	2
13	Dynamical Lattice Distortions in High-Tc Cuprate Superconductors. <i>Springer Series in Materials Science</i> , 2017 , 213-220	0.9	1
12	Temperature dependent nanoscale atomic correlations in $\text{Ir}_{1-x}\text{Pt}_x\text{Te}_2$ ($x = 0.0, 0.03$ and 0.04) system. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 375702	1.8	1

- 11 Spherical wave corrections in photoelectron diffraction. *Physica B: Condensed Matter*, **1989**, 158, 543-546.8 1
- 10 X-Ray Absorption Fine Structure Applied to the Study of Systems with Lattice Instabilities. *Materials Research Society Symposia Proceedings*, **1996**, 437, 189 0
- 9 Anomalous Isotope Effect of Polaronic Excitations. *Journal of Superconductivity and Novel Magnetism*, **2015**, 28, 1325-1329 1.5
- 8 Electronic structure near Fermi level in few-layer films of FeSe. *International Journal of Modern Physics B*, **2018**, 32, 1840025 1.1
- 7 Local Structure Instability Across the Martensitic Transition in Nb₃Sn. *Journal of Superconductivity and Novel Magnetism*, **2011**, 24, 1219-1223 1.5
- 6 First Mexican Synchrotron Radiation Users Meeting. *Synchrotron Radiation News*, **2011**, 24, 2-5 0.6
- 5 X-ray Absorption at the Pr L1-edge in PrNiO₃. *Journal of Superconductivity and Novel Magnetism*, **2009**, 22, 81-84 1.5
- 4 Low Field Magnetoristance and Inhomogenieties in La_{2/3}Ca_{1/3}MnO₃ Films. *Journal of Superconductivity and Novel Magnetism*, **2009**, 22, 173-177 1.5
- 3 Polaron Formation in a Model Hamiltonian with Covalent Electron-Phonon Interactions. *Journal of Superconductivity and Novel Magnetism*, **2005**, 18, 723-726
- 2 An assessment of multiple-scattering effects in Auger electron and photoelectron diffraction. *Physica B: Condensed Matter*, **1989**, 158, 564-565 2.8
- 1 Local atomic structure and Ni nanophase segregation in Zn_{1-x}Ni_xS thin films. *Journal of Alloys and Compounds*, **2021**, 854, 157258 5.7