

Jose Mustre de Leon

List of Publications by Year in descending order

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84
papers

4,285
citations

304602

22
h-index

106281

65
g-index

85
all docs

85
docs citations

85
times ranked

3058
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical x-ray absorption fine structure standards. Journal of the American Chemical Society, 1991, 113, 5135-5140.	6.6	1,657
2	Ab initio curved-wave x-ray-absorption fine structure. Physical Review B, 1991, 44, 4146-4156.	1.1	785
3	Evidence for an axial oxygen-centered lattice fluctuation associated with the superconducting transition in YBa ₂ Cu ₃ O ₇ . Physical Review Letters, 1990, 65, 1675-1678.	2.9	257
4	Off-center displacement of the Nb ions below and above the ferroelectric phase transition of KTa _{0.91} Nb _{0.09} O ₃ . Physical Review B, 1991, 44, 6700-6707.	1.1	145
5	Evidence for a local lattice distortion in Ca-doped LaMnO ₃ . Physical Review B, 1996, 53, 13985-13988.	1.1	140
6	Polaron origin for anharmonicity of the axial oxygen in YBa ₂ Cu ₃ O ₇ . Physical Review Letters, 1992, 68, 3236-3239.	2.9	107
7	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. Physical Review B, 1992, 45, 2447-2457.	1.1	106
8	Relativistic XANES calculations of Pu hydrates. Physical Review B, 1998, 57, 7518-7525.	1.1	104
9	High-Temperature XAS Study of Fe ₂ SiO ₄ Liquid: Reduced Coordination of Ferrous Iron. Science, 1993, 262, 229-233.	6.0	86
10	Spherical-wave corrections in photoelectron diffraction. Physical Review B, 1989, 39, 5632-5639.	1.1	75
11	Grazing incidence XAFS spectroscopy of uranyl sorbed onto TiO ₂ rutile surfaces. New Journal of Chemistry, 2003, 27, 648-655.	1.4	70
12	Analysis of experimental extended x-ray-absorption fine-structure (EXAFS) data using calculated curved-wave, multiple-scattering EXAFS spectra. Physical Review B, 1990, 42, 10843-10851.	1.1	65
13	X-ray photoelectron diffraction at high angular resolution. Physical Review B, 1987, 35, 9859-9862.	1.1	46
14	Single scattering curved wave XAFS code. Physica B: Condensed Matter, 1989, 158, 417-418.	1.3	41
15	Correlation between axial-oxygen anharmonicity and T _c in YBa ₂ Cu ₃ O ₇ and related compounds. Physical Review B, 1991, 44, 2422-2425.	1.1	41
16	Possible Bose-condensate behavior in a quantum phase originating in a collective excitation in the chemically and optically doped Mott-Hubbard system UO ₂ . Physical Review B, 2013, 88, .	1.1	39
17	Characterization of a split axial-oxygen site in TlBa ₂ Ca ₃ Cu ₄ O ₁₁ by extended x-ray-absorption fine-structure spectroscopy. Physical Review B, 1991, 44, 9480-9485.	1.1	37
18	Correlation-function analysis of nonlinear and nonadiabatic systems: Polaron tunneling. Physical Review B, 1995, 51, 8878-8891.	1.1	35

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19	Signatures of mesoscopic Jahn-Teller polaron inhomogeneities in high-temperature superconductors. Journal of Physics Condensed Matter, 2003, 15, L169-L175.	0.7	32
20	Dynamic polaron tunneling in YBa ₂ Cu ₃ O ₇ : Optical response and inelastic neutron scattering. Physical Review B, 1994, 49, 3671-3674.	1.1	27
21	Local lattice structure change in PrNi_3O_7 across the metal-insulator transition: X-ray absorption near-edge structure spectroscopy and <i>ab initio</i> calculations. Physical Review B, 2008, 77, .	1.1	25
22	Local phase separation in TI-based oxide superconductors. Journal of Superconductivity and Novel Magnetism, 1997, 10, 329-332.	0.5	23
23	Planar oxygen-centered lattice instabilities in TI-based high-temperature superconductors. Physica C: Superconductivity and Its Applications, 1994, 220, 377-382.	0.6	21
24	Observation of a Photoinduced Lattice Relaxation in CdTe:In. Physical Review Letters, 1999, 83, 3446-3449.	2.9	21
25	Local structure fluctuations as a signature of an inhomogeneous ground state in high-Tc superconductors. Journal of Synchrotron Radiation, 2005, 12, 193-196.	1.0	20
26	Relative importance of recent improvements in the modelling of substrate X-ray photoelectron diffraction - Ni 2p _{3/2} emission from Ni(001). Physica Scripta, 1990, 41, 990-995.	1.2	19
27	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". Physical Review B, 1993, 47, 12322-12324.	1.1	16
28	Local atomic structure and analysis of secondary phases in non-stoichiometric Cu ₂ ZnSnS ₄ using X-ray absorption fine structure spectroscopy. Journal of Alloys and Compounds, 2017, 714, 381-389.	2.8	15
29	Evidence for a Local Structural Change in La ₂ CuO _{4.1} Across the Superconducting Transition. Journal of Superconductivity and Novel Magnetism, 2002, 15, 355-360.	0.5	13
30	Direct observation of a lattice instability in heavily In-doped CdTe. Physical Review B, 1997, 55, 7629-7632.	1.1	12
31	Isotopic substitution in a model polaronic system. Physical Review B, 1999, 59, 8359-8362.	1.1	12
32	Local atomic structure of CdTe:In at high In concentrations. Physical Review B, 2000, 61, 7428-7432.	1.1	10
33	Influence of the local atomic structure in the X-ray absorption near edge spectroscopy of neptunium oxo ions. Physical Chemistry Chemical Physics, 2009, 11, 10396.	1.3	10
34	Crystal structure versus solution for two new lutetium thiocyanato complexes. New Journal of Chemistry, 2011, 35, 2755.	1.4	10
35	A flexible method for fitting EXAFS spectra application to structural phase transitions. Physica B: Condensed Matter, 1989, 158, 263-267.	1.3	8
36	Local distortions of the TI-O layers in TI-based high-temperature superconductors. Physical Review B, 1994, 50, 3356-3362.	1.1	8

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37	Local atomic environment of Cu: CdTe thin film alloys. <i>Microelectronics Journal</i> , 2000, 31, 429-431.	1.1	8
38	Chemical Bonding and Electronic Structure in CdS/GO and CdSSe/GO Multilayer Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13918-13924.	1.5	8
39	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.	1.9	7
40	Experimental Speciation of Plutonium(IV) in Natural Seawater. <i>ChemistrySelect</i> , 2018, 3, 2021-2024.	0.7	7
41	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.	0.8	6
42	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.	0.8	6
43	Effect of rare earth substitution in the density of electronic states of LnOFeAs. <i>Journal of Applied Physics</i> , 2012, 111, 112631.	1.1	6
44	Interpretation of X-ray Absorption Spectra of As(III) in Solution Using Monte Carlo Simulations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10967-10973.	1.1	6
45	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.	0.8	6
46	Local atomic structure around iodine in ZnSe:I. <i>Solar Energy Materials and Solar Cells</i> , 2004, 82, 151-157.	3.0	5
47	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, 10419-10428.	1.2	5
48	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.	0.8	5
49	X-ray Accelerated Photo-Oxidation of As(III) in Solution. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2829-2833.	1.1	5
50	The Local Structure of High-Temperature Superconductors. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 573.	0.8	5
51	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.	0.7	4
52	Polaronic Signatures in Phonon Isotopic Shifts. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 220, 499-502.	0.7	4
53	Microstrain and polaronic correlation in a model system. <i>Journal of Physics: Conference Series</i> , 2008, 108, 012020.	0.3	4
54	$\text{Cu}_2\text{ZnSnS}_4$ thin films prepared with a Joule-heated graphite closed-space sulfurization system. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	4

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55	Local atomic structure and lattice defect analysis in heavily Co-doped ZnS thin films using X-ray absorption fine structure spectroscopy. Journal of Physics and Chemistry of Solids, 2020, 136, 109154.	1.9	4
56	Asymmetry of the splitting of the fluorescence spectrum of Cr ³⁺ in GdAlO ₃ . Solid State Communications, 1983, 46, 841-845.	0.9	3
57	Efficient excited state exchange-correlation potentials. Physica B: Condensed Matter, 1989, 158, 413-414.	1.3	3
58	Local structure of Tl ₂ (Ba _{1-x} Sr _x) ₂ CuO ₆ (x = 0.0, 0.4, 0.5) studied by X-ray absorption spectroscopy. Physica C: Superconductivity and Its Applications, 1994, 219, 371-377.	0.6	3
59	Local structural characterization of Zn:Cd:Se ternary semiconductors. Thin Solid Films, 2005, 490, 165-167.	0.8	3
60	Characterization of an Electronic Excitation on a Peierls-Hubbard Hamiltonian for a Small Cluster. Journal of Superconductivity and Novel Magnetism, 2014, 27, 991-994.	0.8	3
61	Effect of local atomic phase separation in the x-ray absorption near edge structure spectroscopy of FeSe _x Te _{1-x} . Journal of Physics and Chemistry of Solids, 2015, 84, 80-84.	1.9	3
62	Spherical wave corrections in photoelectron diffraction. Physica B: Condensed Matter, 1989, 158, 543-546.	1.3	2
63	Upper limits to fusion rates of isotopic hydrogen molecules in Pd. Physical Review C, 1990, 41, 2544-2547.	1.1	2
64	Calculation of X-ray absorption structure above K-edge of laser shock-compressed aluminum. Laser and Particle Beams, 1990, 8, 319-325.	0.4	2
65	Mustre de Leon et al. Reply. Physical Review Letters, 1995, 75, 584-584.	2.9	2
66	X-ray absorption LIII and MV edges of hexavalent lower actinides. Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 2000, 3, 327-333.	0.1	2
67	Local Atomic Structure Of Cdse Ultra-Thin Quantum Wells Examined By X-Ray Absorption Fine Structure Experiments. AIP Conference Proceedings, 2007, , .	0.3	2
68	Antiferromagnetic stripe ordering at the tetragonal-orthorhombic transition in LnOFeAs probed by X-ray absorption spectroscopy. Journal of Physics and Chemistry of Solids, 2010, 71, 1118-1122.	1.9	2
69	Local Structure Instability Across the Martensitic Transition in Nb ₃ Sn. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1219-1223.	0.8	2
70	Tris(tetrabutylammonium) tris(nitrato- λ^2 -O,O',O'')tetrakis(thiocyanato- λ^1 -N,N')thorium(IV). Acta Crystallographica Section E: Structure Reports Online, 2011, 67, m487-m487.	0.2	2
71	Dynamical Lattice Distortions in High-Tc Cuprate Superconductors. Springer Series in Materials Science, 2017, , 213-220.	0.4	2
72	Multivalence states and optical band-tail effect in heavily V-doped ZnS thin films. Materials Letters, 2019, 257, 126774.	1.3	2

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73	X-Ray Absorption Fine Structure Applied to the Study of Systems with Lattice Instabilities. Materials Research Society Symposia Proceedings, 1996, 437, 189.	0.1	1
74	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. Journal of Physics Condensed Matter, 2014, 26, 375702.	0.7	1
75	An assessment of multiple-scattering effects in Auger electron and photoelectron diffraction. Physica B: Condensed Matter, 1989, 158, 564-565.	1.3	0
76	Polaron Formation in a Model Hamiltonian with Covalent Electron-Phonon Interactions. Journal of Superconductivity and Novel Magnetism, 2005, 18, 723-726.	0.5	0
77	X-ray Absorption at the $\text{Pr} L_1$ -edge in PrNiO_3 . Journal of Superconductivity and Novel Magnetism, 2009, 22, 81-84.	0.8	0
78	Low Field Magnetoristance and Inhomogenities in $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ Films. Journal of Superconductivity and Novel Magnetism, 2009, 22, 173-177.	0.8	0
79	First Mexican Synchrotron Radiation Users Meeting. Synchrotron Radiation News, 2011, 24, 2-5.	0.2	0
80	Anomalous Isotope Effect of Polaronic Excitations. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1325-1329.	0.8	0
81	Electronic structure near Fermi level in few-layer films of FeSe . International Journal of Modern Physics B, 2018, 32, 1840025.	1.0	0
82	Local atomic structure and Ni nanophase segregation in $\text{Zn}_{1-x}\text{Ni}_x\text{S}$ thin films. Journal of Alloys and Compounds, 2021, 854, 157258.	2.8	0
83	Investigating Actinide Molecular Adducts from Absorption Edge Spectroscopy. Physica Scripta, 2005, , 891.	1.2	0
84	SPHERICAL WAVE CORRECTIONS IN ARPEFS. Journal De Physique Colloque, 1986, 47, C8-213-C8-216.	0.2	0