

# MarÃ-a Luisa SanjuÃ;n

## List of Publications by Year in descending order

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98  
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citations

218592

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101  
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101  
docs citations

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times ranked

3248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cubic phases of garnet-type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ : the role of hydration. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11419.	5.2	294
2	Influence of the Structure on the Electrochemical Performance of Lithium Transition Metal Phosphates as Cathodic Materials in Rechargeable Lithium Batteries: A New High-Pressure Form of $\text{LiMPO}_4$ (M = Fe and Ni). <i>Chemistry of Materials</i> , 2001, 13, 1570-1576.	3.2	184
3	Single-Walled Carbon Nanotubes as Electrodes in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2004, 151, A831.	1.3	118
4	Porosity, Surface Area, Surface Energy, and Hydrogen Adsorption in Nanostructured Carbons. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15820-15826.	1.2	112
5	Raman spectroscopic study of cation disorder in poly- and single crystals of the nickel aluminate spinel. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 186217.	0.7	88
6	Low-temperature synthesis of $\text{SrAl}_2\text{O}_4$ by a modified sol-gel route: XRD and Raman characterization. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1978-1987.	1.4	87
7	Thermo catalytic decomposition of methane over $\text{Ni-Mg}$ and $\text{Ni-Cu-Mg}$ catalysts. <i>Applied Catalysis A: General</i> , 2007, 333, 229-237.	2.2	78
8	Temperature-dependent studies of the geometrically frustrated pyrochlores $\text{Ho}_2\text{Ti}_2\text{O}_7$ . <i>Physical Review B</i> , 2009, 79, .	1.1	78
9	Raman and x-ray absorption spectroscopy study of the phase evolution induced by mechanical milling and thermal treatments in $\text{R}_2\text{Ti}_2\text{O}_7$ pyrochlores. <i>Physical Review B</i> , 2011, 84, .	1.1	66
10	The influence of single-walled carbon nanotube functionalization on the electronic properties of their polyaniline composites. <i>Carbon</i> , 2008, 46, 1909-1917.	5.4	64
11	Influence of $\text{Li}^{+}$ and $\text{H}^{+}$ Distribution on the Crystal Structure of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (0-100% Tj ETQ1 1 0.784314 rgB	1.1	50
12	Influence of Quenching Treatments on Structure and Conductivity of the $\text{Li}_3\text{xLa}_{2/3-\text{x}}\text{TiO}_3$ Series. <i>Chemistry of Materials</i> , 2003, 15, 225-232.	3.2	50
13	Temperature-dependent Raman study of the spin-liquid pyrochlore $\text{Tb}_2\text{Ti}_2\text{O}_7$ . <i>Physical Review B</i> , 2008, 78, .	1.1	50
14	Spectroscopic study of the competition between dehydration and carbonation effects in $\text{La}_2\text{O}_3$ -based materials. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2103-2110.	2.8	45
15	NMR study of Li distribution in $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ garnets. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5683-5691.	5.2	44
16	Raman and x-ray study of perovskite solid solutions. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 11687-11702.	0.7	40
17	New insights in the structure-luminescence relationship of $\text{Eu:SrAl}_2\text{O}_4$ . <i>Journal of Alloys and Compounds</i> , 2009, 484, 693-697.	2.8	39
18	Laser synthesis and luminescence properties of $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$ , $\text{Dy}^{3+}$ phosphors. <i>Journal of the European Ceramic Society</i> , 2012, 32, 4363-4369.	2.8	39

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19	Low-temperature structural and Raman studies on rare-earth gallates. <i>Physical Review B</i> , 2003, 68, .	1.1	36
20	Raman spectroscopy studies of apatite-type germanate oxide ion conductors: correlation with interstitial oxide ion location and conduction. <i>Journal of Materials Chemistry</i> , 2010, 20, 2170.	6.7	30
21	Enhanced hydrogen adsorption on single-wall carbon nanotubes by sample reduction. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 108, 120-123.	1.7	29
22	Apatite germanates doped with tungsten: synthesis, structure, and conductivity. <i>Dalton Transactions</i> , 2011, 40, 3903-3908.	1.6	29
23	Raman study of antiferroelectric instability in $\text{La}(2-x)/3\text{Li}_x\text{TiO}_3$ (0.1 < x < 0.5) double perovskites. <i>Physical Review B</i> , 2001, 64, .	1.1	28
24	Stabilization of the ferroelectric phase and relaxor-like behaviour in low Li content sodium niobates. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 7493-7510.	0.7	28
25	Persistence of short range order in the fluid phases of a mesogen copper complex studied by EPR. <i>Liquid Crystals</i> , 1993, 13, 585-596.	0.9	27
26	Lithium dynamics and disorder effects in the Raman spectrum of $\text{La}(2-x)/3\text{Li}_x\text{TiO}_3$ . <i>Physical Review B</i> , 2002, 66, .	1.1	26
27	On the Local Structure and Lithium Dynamics of $\text{La}_{0.5}(\text{Li},\text{Na})_{0.5}\text{TiO}_3$ Ionic Conductors. A Raman Study. <i>Chemistry of Materials</i> , 2005, 17, 5862-5866.	3.2	26
28	Gold/carbon nanocomposite foam. <i>Chemical Physics Letters</i> , 2006, 420, 86-89.	1.2	24
29	Vanadyl metal mesogen derivatives: an ESR study. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 9173-9182.	0.7	21
30	Raman study of $T_{\text{a}}^{\text{TM}}$ -phase distortion in $\text{R}_2\text{CuO}_4$ compounds (R=Nd,Sm,Eu,Gd). <i>Physical Review B</i> , 1993, 48, 7565-7569.	1.1	18
31	Raman spectrum of $\text{Pr}_2\text{CuO}_4$ : Crystal-field transitions of $\text{Pr}^{3+}$ and the $A^*$ mode. <i>Physical Review B</i> , 1995, 52, 13000-13005.	1.1	17
32	Microstructural development of the $\text{La}_{0.5}\text{Li}_{0.5}\text{TiO}_3$ lithium ion conductor processed by the laser floating zone (LFZ) method. <i>Journal of Materials Chemistry</i> , 2001, 11, 125-130.	6.7	17
33	The role of Ce reduction in the segregation of metastable phases in the $\text{ZrO}_2\text{-CeO}_2$ system. <i>Journal of the European Ceramic Society</i> , 2012, 32, 689-696.	2.8	17
34	High-pressure Raman scattering study of defect chalcopyrite and defect stannite $\text{ZnGa}_2\text{Se}_4$ . <i>Journal of Applied Physics</i> , 2013, 113, 233501.	1.1	17
35	The Configuration of $\text{I}^2$ Carotene in the Photosystem II Reaction Center. <i>Photochemistry and Photobiology</i> , 1998, 68, 729-737.	1.3	16
36	X-ray and Raman study of the low temperature $\text{NH}_4\text{MnF}_3$ structure; evidence of librational motion of the $\text{NH}_4^+$ ion. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 283-300.	0.7	15

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37	Phase evolution in reaction sintered zirconium titanate based materials. Journal of the European Ceramic Society, 2010, 30, 981-991. Structure and phase transitions in $A_{1-x}B_x$	2.8	15
38	-site ordered $R_2Ba_2$		

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55	Dynamical features of a hydrogen-lithium complex in MgO:Li studied by EPR. <i>Physical Review B</i> , 1986, 33, 3058-3063.	1.1	10
56	Raman selection rules in uniaxial media: The nonpolar modes of MnGa <sub>2</sub> Se <sub>4</sub> . <i>Physical Review B</i> , 2005, 71, .	1.1	10
57	Thermally activated cation ordering in Zn <sub>0.5</sub> Mn <sub>0.5</sub> Ga <sub>2</sub> Se <sub>4</sub> single crystals studied by Raman scattering. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1182-1186.	0.8	10
58	The enhanced Raman scattering of phonons in CaF <sub>2</sub> and MgO samples containing Ca and Li colloids. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 9647-9657.	0.7	9
59	Proton and Deuteron Exchange in TTB-Like Na <sub>1.2</sub> Nb <sub>1.2</sub> W <sub>0.8</sub> O <sub>6</sub> : Structural Characterization and Spectroscopic Study. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 49-58.	1.0	9
60	Static and dynamical properties of DOi (Li) in MgO:Li studied by EPR: Isotope effects. <i>Journal of Chemical Physics</i> , 1988, 88, 2976-2980.	1.2	8
61	Raman study of Zn <sub>1-x</sub> Mn <sub>x</sub> Ga <sub>2</sub> Se <sub>4</sub> diluted magnetic semiconductors: disorder and resonance effects. <i>Physica B: Condensed Matter</i> , 2002, 316-317, 565-567.	1.3	8
62	Synthesis and Characterization of NaNiF <sub>3</sub> ·3H <sub>2</sub> O: An Unusual Ordered Variant of the ReO <sub>3</sub> Type. <i>Inorganic Chemistry</i> , 2015, 54, 3172-3182.	1.9	8
63	High CO <sub>2</sub> permeability in supported molten-salt membranes with highly dense and aligned pores produced by directional solidification. <i>Journal of Membrane Science</i> , 2021, 630, 119057.	4.1	8
64	A new EPR study of the OH <sup>2+</sup> molecular ion in CaO. <i>Journal of Chemical Physics</i> , 1986, 85, 4254-4260.	1.2	7
65	Fe <sup>2+</sup> electronic transitions in Raman and infrared spectra of FePSe <sub>3</sub> and FePS <sub>3</sub> crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1989, 3, 85-89.	1.7	7
66	Raman study of the NH <sub>4</sub> <sup>+</sup> libration phonon coupling in NH <sub>4</sub> MnF <sub>3</sub> . <i>Physica B: Condensed Matter</i> , 1996, 217, 227-234.	1.3	7
67	Structural Study of the Apatite Nd <sub>8</sub> Sr <sub>2</sub> Si <sub>6</sub> O <sub>26</sub> by Laue Neutron Diffraction and Single-Crystal Raman Spectroscopy. <i>Inorganic Chemistry</i> , 2014, 53, 9416-9423.	1.9	7
68	Synthesis and structures of sodium containing K <sub>2-x</sub> Na <sub>x</sub> Mg <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> langbeinite phases. <i>Journal of Solid State Chemistry</i> , 2019, 276, 37-46.	1.4	7
69	EPR and thermoluminescence studies in RT X-irradiated CaO single crystals. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 4763-4769.	1.5	6
70	Electronic Raman study of Fe <sup>2+</sup> in FePX <sub>3</sub> (X=S, Se) layered compounds. <i>Physical Review B</i> , 1992, 46, 11501-11506.	1.1	6
71	Effect of quenching on structure and antiferroelectric instability of La <sub>2-x</sub> /3Li <sub>x</sub> TiO <sub>3</sub> compounds: a Raman study. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1135-1139.	2.8	6
72	Fermi resonance in the Raman spectrum of the Se-vacancy breathing mode of MnGa <sub>2</sub> Se <sub>4</sub> . <i>Physical Review B</i> , 2007, 76, .	1.1	6

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73	Spectroscopic insight into the interplay between structural disorder and oxidation degree in melt-grown Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> compounds. Journal of Raman Spectroscopy, 2020, 51, 514-527.	1.2	6
74	Laser processing of ceramic materials for electrochemical and high temperature energy applications. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2022, 61, S19-S39.	0.9	6
75	BSA- and Elastin-Coated GO, but Not Collagen-Coated GO, Enhance the Biological Performance of Alginate Hydrogels. Pharmaceutics, 2020, 12, 543.	2.0	5
76	Modulation of Conductivity of Alginate Hydrogels Containing Reduced Graphene Oxide through the Addition of Proteins. Pharmaceutics, 2021, 13, 1473.	2.0	5
77	The effect of the reorientation of HiO(Li) defects in MgO on the <sup>25</sup> Mg superhyperfine structure. Journal of Physics C: Solid State Physics, 1987, 20, 5177-5186.	1.5	4
78	[H <sup>+</sup> Ca <sup>+</sup> ]O defect in thermochemically reduced CaO: A static and dynamical EPR study. Physical Review B, 1990, 42, 7604-7609.	1.1	4
79	Raman spectroscopy study of disorder phenomena and size effects in pyrochlores. , 2022, , 95-159.		4
80	HiO(Li) and DiO(Li) defects in CaO studied by EPR: Reorientational and vibrational features. Physical Review B, 1989, 39, 7928-7937.	1.1	3
81	Structural distortion in R <sub>2</sub> CuO <sub>4</sub> compounds: A Raman and lattice dynamics study. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1193-1194.	0.6	3
82	Non-resonant behavior of the Raman mode in Pr <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> . A Raman study of Pr <sub>2-x</sub> Gd <sub>y</sub> Ce <sub>x</sub> CuO <sub>4</sub> (x ≈ 0.5, 0 ≤ y ≤ 1.85). Solid State Communications, 1997, 102, 413-418.	0.9	3
83	Synthesis of new Ln <sub>4</sub> (Al <sub>2</sub> O <sub>6</sub> F <sub>2</sub> ) <sub>2</sub> (Ln = Tj, Er, Yb, Lu, Ho, Dy, Tb, Gd, Sm, Eu, Ce, Pr, Nd, Pm, Bi, Th, U, Pu, Am, Cm, Bk, Cf, Fm, Md, No, Lr). Journal of Solid State Chemistry, 2010, 184, 107-114.	1.0	3
84	Enhanced Raman scattering of phonons in CaF <sub>2</sub> and MgO containing Ca and Li colloids. Radiation Effects and Defects in Solids, 1995, 137, 99-103.	0.4	2
85	Double resonance features in the Raman spectrum of carbon nanotubes. Physical Review B, 2004, 70, .	1.1	2
86	A Raman Study Of Order-Disorder Phenomena In Zn <sub>1-x</sub> Mn <sub>x</sub> Ga <sub>2</sub> Se <sub>4</sub> Compounds. AIP Conference Proceedings, 2007, , .	0.3	2
87	Caracterización estructural y espectroscópica de fibras cristalinas de Ce <sub>0.4</sub> Zr <sub>0.6</sub> O <sub>2</sub> crecidas mediante el método de fusión zonal asistida por láser. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2008, 47, 165-170.	0.9	2
88	The saturation behaviour of the EPR lines of the motional defect HiO(Li) in MgO. Journal of Physics C: Solid State Physics, 1988, 21, 2941-2950.	1.5	1
89	EPR study of defect reorientation by a tunneling-controlled process. Physical Review B, 1990, 42, 7754-7760.	1.1	1
90	Resonant Raman scattering around the E <sub>0</sub> transition of AlAs/InAs strained-layer superlattices. Physical Review B, 1991, 44, 3020-3024.	1.1	1

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91	Order/disorder phenomena in Zn <sub>1-x</sub> Mn <sub>x</sub> Ga <sub>2</sub> Se <sub>4</sub> ordered vacancy compounds: high temperature neutron powder diffraction experiments. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 485402.	0.7	1
92	Measuring Membrane Permeation Rates through the Optical Visualization of a Single Pore. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16436-16441.	4.0	1
93	Hydrogen defect dynamics studied by EPR. isotope and quantum effects. <i>Radiation Effects and Defects in Solids</i> , 1991, 119-121, 37-42.	0.4	0
94	EPR study of the [H <sup>+</sup> Ca <sup>+</sup> ] defect in Tcr CaO. <i>Radiation Effects and Defects in Solids</i> , 1991, 119-121, 945-950.	0.4	0
95	Low Frequency Anomalous Dielectric and Elastic Behaviour of Calcium Substituted Lead Titanate Ceramics in the Paraelectric Phase. <i>Ferroelectrics</i> , 2002, 269, 69-74.	0.3	0
96	One-phonon resonant Raman scattering of high frequency pseudocubic modes in zinc-blende-like tetragonal semiconductors. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 8353-8366.	0.7	0
97	Anharmonic interactions in the Raman spectrum of ZnGa <sub>2</sub> Se <sub>4</sub> and MnGa <sub>2</sub> Se <sub>4</sub> ordered vacancy compounds. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012150.	0.3	0
98	Structured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films grown on aligned calcium stabilized zirconia-calcium zirconate lamellar eutectic substrates. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr8-307-Pr8-311.	0.2	0