

# Milagrosa RamÃ- rez-del Solar

## List of Publications by Year in descending order

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49  
papers

767  
citations

567281

15  
h-index

580821

25  
g-index

49  
all docs

49  
docs citations

49  
times ranked

900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonogels and derived materials. <i>Applied Organometallic Chemistry</i> , 1999, 13, 399-418.	3.5	91
2	Photocatalytic TiO <sub>2</sub> sol-gel thin films: Optical and morphological characterization. <i>Solar Energy</i> , 2015, 122, 11-23.	6.1	57
3	γ-Fe <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> nanocomposites for magneto-optical applications: Nanostructural and magnetic properties. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2801-2810.	3.1	43
4	Photocatalytic degradation of pharmaceutically active compounds (PhACs) in urban wastewater treatment plants effluents under controlled and natural solar irradiation using immobilized TiO <sub>2</sub> . <i>Solar Energy</i> , 2020, 208, 480-492.	6.1	31
5	Kinetic study of gelation of solventless alkoxide-water mixtures. <i>Journal of Non-Crystalline Solids</i> , 1990, 121, 40-44.	3.1	30
6	Size and surface effects in the magnetic properties of maghemite and magnetite coated nanoparticles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4407-4418.	3.4	30
7	Effect of the method of preparation on the texture of TiO <sub>2</sub> -SiO <sub>2</sub> gels. <i>Journal of Non-Crystalline Solids</i> , 1990, 121, 84-89.	3.1	28
8	Influence of the microstructure on the macroscopic elastic and optical properties of dried sonogels: A Brillouin spectroscopic study. <i>Journal of Applied Physics</i> , 1997, 81, 7739-7745.	2.5	28
9	Green and fast synthesis of amino-functionalized graphene quantum dots with deep blue photoluminescence. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	27
10	Aggregation effects in non-linear absorption of CuPc-SiO <sub>2</sub> sono-xerogels. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 327-332.	3.1	20
11	Insights into the annealing process of sol-gel TiO <sub>2</sub> films leading to anatase development: The interrelationship between microstructure and optical properties. <i>Applied Surface Science</i> , 2018, 439, 736-748.	6.1	19
12	Preparation and Characterization of Fluorescent CdS Quantum Dots used for the Direct Detection of GST Fusion Proteins. <i>Nanomaterials and Nanotechnology</i> , 2012, 2, 10.	3.0	18
13	Ultrasound as a tool for the preparation of gels: effect on the textural properties of TiO <sub>2</sub> -SiO <sub>2</sub> aerogels. <i>Journal of Materials Science</i> , 1993, 28, 2191-2195.	3.7	16
14	Maghemite-silica nanocomposites: sol-gel processing enhancement of the magneto-optical response. <i>Nanotechnology</i> , 2008, 19, 475706.	2.6	16
15	Trapping copper phthalocyanine in a silica sono-xerogel. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 985-990.	2.4	15
16	Exploring the Properties and Optical Sensing Capability of Sol-Gel Materials Containing a Covalently Bonded Binucleating Cryptand. <i>Chemistry of Materials</i> , 2003, 15, 2025-2032.	6.7	15
17	Dispersion of the nonlinear absorption of copper phthalocyanine in a silica xerogel matrix through the visible spectrum. <i>Journal of Applied Physics</i> , 1998, 83, 3441-3443.	2.5	14
18	Magneto-optic Faraday effect in maghemite nanoparticles/silica matrix nanocomposites prepared by the Sol-Gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e725-e729.	2.3	14

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19	Qualitative Estimation of Heavy Metals in Marine Sediment Using Thermal Analysis. Soil and Sediment Contamination, 2008, 17, 107-120.	1.9	14
20	Ultrastructural evolution during gelation of TiO <sub>2</sub> -SiO <sub>2</sub> sols. Journal of Non-Crystalline Solids, 1992, 147-148, 206-212.	3.1	13
21	Nonlinear self-defocusing in doped silica sono-gels. Journal of Applied Physics, 1997, 81, 7728-7733.	2.5	13
22	Thermal Analysis in the Evaluation of Sediment Pollution. Environmental Technology (United Kingdom), 2000, 21, 50-62.	2.2	13
23	CdTe quantum dots linked to Glutathione as a bridge for protein crosslinking. Journal of Luminescence, 2017, 187, 193-200.	3.1	12
24	Tracking the optical constants of porous vanadium dioxide thin films during metal-insulator transition: Influence of processing conditions on their application in smart glasses. Applied Surface Science, 2022, 580, 152228.	6.1	12
25	THG from copper phthalocyanines in a sol-gel host. Synthetic Metals, 1996, 83, 273-276.	3.9	11
26	Influence of processing induced textural effect on aggregation level in CuPc/SiO <sub>2</sub> sonogel composites. Journal of Non-Crystalline Solids, 2003, 318, 49-55.	3.1	11
27	Glutathione-magnetite nanoparticles: synthesis and physical characterization for application as MRI contrast agent. SN Applied Sciences, 2020, 2, 1.	2.9	11
28	Facile fabrication of Fe-TiO <sub>2</sub> thin film and its photocatalytic activity. Environmental Science and Pollution Research, 2022, 29, 23292-23302.	5.3	11
29	SAXS study of growth kinetics of fractal aggregates in TEOS-water-alcohol solutions with formamide. Journal of Non-Crystalline Solids, 1992, 147-148, 238-244.	3.1	10
30	CdS semiconductor nanoparticles in silica sonogel matrices. Journal of Sol-Gel Science and Technology, 1994, 2, 689-694.	2.4	10
31	Short-range order of titania doped silica sono-aerogel. Journal of Non-Crystalline Solids, 1997, 220, 45-51.	3.1	10
32	Confinement of CdS nanocrystals in a sonogel matrix. Journal of Sol-Gel Science and Technology, 1997, 8, 275-283.	2.4	9
33	Thermal Gravimetry Analysis Assessed as an Alternative Method for Characterization of Sediment Contamination. Environmental Engineering Science, 2009, 26, 279-288.	1.6	9
34	Thermal Analysis as a First Screening Method to Evaluate Potential Contamination. Water, Air, and Soil Pollution, 2010, 208, 173-182.	2.4	9
35	Improving Magneto-optical Faraday Effect of maghemite/silica nanocomposites. Materials Chemistry and Physics, 2015, 154, 1-9.	4.0	9
36	CdS-silica xerogel nanocomposites: Processing-induced textural changes. Journal of Materials Research, 1994, 9, 2873-2877.	2.6	8

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37	Reversible Binuclear Cu(II) Complex Formation in a New Sonogelâ Cryptand Hybrid Material. Chemistry of Materials, 2002, 14, 670-676.	6.7	7
38	Porous Thin Films from Sol-Gel. , 2017, , 157-188.		7
39	Ultrastructural evolution during sintering of mixed sonogels. Journal of Sol-Gel Science and Technology, 1994, 3, 41-46.	2.4	6
40	CdS nanocrystals embedded in silica sonogel. Scripta Materialia, 1995, 5, 363-372.	0.5	6
41	Brillouin spectroscopy on dried sonogels. Applied Physics Letters, 1996, 69, 3827-3829.	3.3	6
42	Engineering of III-Nitride Semiconductors on Low Temperature Co-fired Ceramics. Scientific Reports, 2018, 8, 6879.	3.3	6
43	Analysis of the Visual Appearance of AISI 430 Ferritic Stainless Steel Flat Sheets Manufactured by Cool Rolling and Bright Annealing. Metals, 2021, 11, 1058.	2.3	6
44	Microstructural and Mechanical Properties of Sono-Ormosils. Journal of Sol-Gel Science and Technology, 1998, 13, 451-455.	2.4	4
45	Ultrasound-processed silica xerogels behavior during heating. Materials Letters, 1995, 22, 265-270.	2.6	3
46	Structure of CdS/SiO <sub>2</sub> Nanocomposites: Influence of the Precursor and Cd Concentration. Journal of Sol-Gel Science and Technology, 1998, 11, 217-227.	2.4	3
47	Relationship between nanoparticle growth and magnetic properties of magnetic nanocomposites. Journal of Non-Crystalline Solids, 2008, 354, 5213-5215.	3.1	3
48	Implications of nanoparticle concentration and size distribution in the superparamagnetic behaviour of aging-improved maghemite xerogels. European Physical Journal D, 2009, 52, 19-22.	1.3	2
49	Structure modifications during thermal processing of silicon alkoxyde derived silica-iron oxide nanocomposites. Journal of Sol-Gel Science and Technology, 2009, 52, 251-259.	2.4	1