MartÃ- Gich

List of Publications by Year
in descending order

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73	2,257	201385	223531
papers	citations	27 h-index	46 g-index

78	78	78	2813
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Improved polarization and endurance in ferroelectric Hf_{0.5}Zr_{0.5}O₂ films on SrTiO₃(110). Nanoscale, 2022, 14, 2337-2343.	2.8	19
2	Magnetic Mesoporous Silica Nanorods Loaded with Ceria and Functionalized with Fluorophores for Multimodal Imaging. ACS Applied Nano Materials, 2022, 5, 2113-2125.	2.4	10
3	Ferroelectric Hf_{0.5}Zr_{0.5}O₂ films on SrTiO₃(111). Journal of Materials Chemistry C, 2022, 10, 8407-8413.	2.7	7
4	Composites of porous carbon and copper-based nanoparticles for the electrochemical analysis of chemical oxygen demand. Materials Today Chemistry, 2022, 24, 100899.	1.7	3
5	In-field one-step measurement of dissolved chemical oxygen demand with an integrated screen-printed electrochemical sensor. Sensors and Actuators B: Chemical, 2022, 369, 132304.	4.0	9
6	Compact fluidic electrochemical sensor platform for on-line monitoring of chemical oxygen demand in urban wastewater. Chemical Engineering Journal, 2022, 449, 137837.	6.6	9
7	Nanorods Based on Mesoporous Silica Containing Iron Oxide Nanoparticles as Catalytic Nanomotors: Study of Motion Dynamics. ChemNanoMat, 2021, 7, 134-140.	1.5	8
8	Quartzâ€Based Cantilevers: Softâ€Chemistryâ€Assisted Onâ€Chip Integration of Nanostructured Î±â€Quartz Microelectromechanical System (Adv. Mater. Technol. 3/2021). Advanced Materials Technologies, 2021, 6, 2170014.	3.0	0
9	Softâ€Chemistryâ€Assisted Onâ€Chip Integration of Nanostructured Î±â€Quartz Microelectromechanical System. Advanced Materials Technologies, 2021, 6, 2000831.	3.0	4
10	Micro/Nanostructure Engineering of Epitaxial Piezoelectric Î±-Quartz Thin Films on Silicon. ACS Applied Materials & Interfaces, 2020, 12, 4732-4740.	4.0	16
11	Magnetic properties of synthetic fluorophlogopite mica crystals. Materials Advances, 2020, 1, 1464-1471.	2.6	14
12	Magnetic properties of Cr-substituted Îµ-(Fe1-xCrx)2O3 nanoparticles with epsilon structure. Journal of Magnetism and Magnetic Materials, 2020, 506, 166764.	1.0	7
13	Unconventional Ferroelectric Switching via Local Domain Wall Motion in Multiferroic Îµâ€Fe₂O₃ Films. Advanced Electronic Materials, 2020, 6, 1901134.	2.6	11
14	Characterizing Ferroelectricity with an Atomic Force Microscopy: An All-Around Technique. Nanoscience and Technology, 2019, , 173-203.	1.5	1
15	Tailoring the crystal growth of quartz on silicon for patterning epitaxial piezoelectric films. Nanoscale Advances, 2019, 1, 3741-3752.	2.2	16
16	Stability and nature of the volume collapse of Îµ-Fe2O3 under extreme conditions. Nature Communications, 2018, 9, 4554.	5.8	28
17	Tuning Oxygen Vacancy Diffusion through Strain in SrTiO3 Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 35367-35373.	4.0	13
18	Multiferroic Oxide Thin Films. , 2018, , 253-258.		1

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19	Epsilonâ€Fe₂O₃ Nanocrystals inside Mesoporous Silicas with Tailored Morphologies of Rod, Platelet and Donut. ChemNanoMat, 2018, 4, 1168-1176.	1.5	3
20	Metal Nanoparticle Carbon Gel Composites in Environmental Water Sensing Applications. Chemical Record, 2018, 18, 749-758.	2.9	4
21	Piezo-generated charge mapping revealed through direct piezoelectric force microscopy. Nature Communications, 2017, 8, 1113.	5.8	40
22	Unveiling a New High-Temperature Ordered Magnetic Phase in Îµ-Fe₂O₃. Chemistry of Materials, 2017, 29, 9705-9713.	3.2	47
23	Carbonâ€“Silica Composites to Produce Highly Robust Thinâ€Film Electrochemical Microdevices. Advanced Materials Technologies, 2017, 2, 1700163.	3.0	8
24	Electric and Mechanical Switching of Ferroelectric and Resistive States in Semiconducting BaTiO_{3â€“}_{Î´} Films on Silicon. Small, 2017, 13, 1701614.	5.2	28
25	Alignment under Magnetic Field of Mixed Fe₂O₃/SiO₂Colloidal Mesoporous Particles Induced by Shape Anisotropy. Small, 2016, 12, 5981-5988.	5.2	16
26	Electrochemically Active Thin Carbon Films with Enhanced Adhesion to Silicon Substrates. ACS Applied Materials & Interfaces, 2016, 8, 31092-31099.	4.0	6
27	Screen-printed electrodes made of a bismuth nanoparticle porous carbon nanocomposite applied to the determination of heavy metalÂions. Mikrochimica Acta, 2016, 183, 617-623.	2.5	83
28	Gold nanotriangles decorated with superparamagnetic iron oxide nanoparticles: a compositional and microstructural study. Faraday Discussions, 2016, 191, 215-227.	1.6	20
29	Preparation of Macroporous Epitaxial Quartz Films on Silicon by Chemical Solution Deposition. Journal of Visualized Experiments, 2015, , e53543.	0.2	5
30	Integration of functional complex oxide nanomaterials on silicon. Frontiers in Physics, 2015, 3, .	1.0	8
31	Chiral habit selection on nanostructured epitaxial quartz films. Faraday Discussions, 2015, 179, 227-233.	1.6	2
32	Molecular self-assembly and clustering in nucleation processes: general discussion. Faraday Discussions, 2015, 179, 155-197.	1.6	10
33	Time and space resolved methods: general discussion. Faraday Discussions, 2015, 179, 247-267.	1.6	7
34	Electroanalytical Assessment of Heavy Metals in Waters with Bismuth Nanoparticle-Porous Carbon Paste Electrodes. Electrochimica Acta, 2015, 165, 155-161.	2.6	85
35	Crystallization of hollow mesoporous silica nanoparticles. Chemical Communications, 2015, 51, 4164-4167.	2.2	24
36	Zero-field quantum tunneling relaxation of the molecular spin in Fe ₈ observed by ⁵⁷ Fe MÃ¶ssbauer spectrometry. Europhysics Letters, 2014, 108, 47004.	0.7	2

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37	Waterâ€induced Phase Separation Forming Macrostructured Epitaxial Quartz Films on Silicon. Advanced Functional Materials, 2014, 24, 5494-5502.	7.8	22
38	Multiferroic Iron Oxide Thin Films at Room Temperature. Advanced Materials, 2014, 26, 4645-4652.	11.1	172
39	Quartz Films: Water-Induced Phase Separation Forming Macrostructured Epitaxial Quartz Films on Silicon (Adv. Funct. Mater. 35/2014). Advanced Functional Materials, 2014, 24, 5493-5493.	7.8	1
40	Electronic and Magnetic Structure of LaSr-2Ã—4 Manganese Oxide Molecular Sieve Nanowires. Microscopy and Microanalysis, 2014, 20, 760-766.	0.2	6
41	Facile synthesis of porous bismuthâ€“carbon nanocomposites for the sensitive detection of heavy metals. Journal of Materials Chemistry A, 2013, 1, 11410.	5.2	64
42	Electromagnon in ferrimagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>É›</mml:mi><mml:mo>â^’</mml:mo><mml:msub><mml:mi mathvariant="bold">Fe</mml:mi><mml:mn mathvariant="bold">2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn mathvariant="bold">3</mml:mn></mml:msub></mml:mrow></mml:math>nanograin ceramics. Physical R	1.1	13
43	Soft-Chemistryâ€“Based Routes to Epitaxial Î±-Quartz Thin Films with Tunable Textures. Science, 2013, 340, 827-831.	6.0	64
44	Surface Reactivity of Iron Oxide Nanoparticles by Microwave-Assisted Synthesis; Comparison with the Thermal Decomposition Route. Journal of Physical Chemistry C, 2012, 116, 15108-15116.	1.5	89
45	2D Magnetic Frames Obtained by the Microwaveâ€Assisted Chemistry Approach. European Journal of Inorganic Chemistry, 2012, 2012, 2656-2660.	1.0	6
46	Charge Transport and Electrochemical Properties of Colloidal Greigite (Fe₃S₄) Nanoplatelets. Chemistry of Materials, 2011, 23, 3762-3768.	3.2	60
47	Epitaxial stabilization of Îµ-Fe2O3 (00l) thin films on SrTiO3 (111). Applied Physics Letters, 2010, 96, .	1.5	79
48	Nonzero orbital moment in high coercivity<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ïµ</mml:mi><mml:msub><mml:mrow><mml:mtext>-Fe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>low-temperature collapse of the magnetocrystalline anisotropy. Physical Review B, 2009, 79, .	1.1	105
49	Nanospheres of Silica with an Îµ-Fe₂O₃ Single Crystal Nucleus. ACS Nano, 2009, 3, 3377-3382.	7.3	55
50	Magnetic behaviour of Feâ€“Cr nanoparticle systems. Journal of Magnetism and Magnetic Materials, 2008, 320, e683-e687.	1.0	9
51	The Villalbeto de la PeÃ±a meteorite fall: III. Bulk chemistry, porosity, magnetic properties, ⁵⁷Fe MÃ¶ssbauer spectroscopy, and Raman spectroscopy. Meteoritics and Planetary Science, 2007, 42, A177.	0.7	11
52	Stabilization of metastable phases in spatially restricted fields: the case of the Fe2O3 polymorphs. Faraday Discussions, 2007, 136, 345.	1.6	55
53	Versatility in the mode of coordination {(N), (N,O)â^', (C,N)â^' or (C,N,O)2â^'} of [(Î·5-C5H5)Fe{(Î·5-C5H4)â€“CHNâ€“(C6H4-2OH)}] to palladium(II). Journal of Organometallic Chemistry, 2007, 692, 2402-2414.	0.8	24
54	MÃ¶ssbauer studies on ultraporous Fe-Oxide/SiO2 aerogel. Hyperfine Interactions, 2007, 165, 203-208.	0.2	3

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55	Spin transition in a triazine-based Fe(ii) complex: variable-temperature structural, thermal, magnetic and spectroscopic studies. Journal of Materials Chemistry, 2006, 16, 2669-2676.	6.7	36
56	Magnetoelectric coupling in Îµ-Fe2O3 nanoparticles. Nanotechnology, 2006, 17, 687-691.	1.3	99
57	Structural and magnetic properties of bulk alloys and aerosol nanoparticles in the Fe100â^'xCrx system. Journal of Alloys and Compounds, 2006, 416, 51-57.	2.8	11
58	Synthesis and structural characteristics of carbon aerogels with a high content of Fe, Co, Ni, Cu, and Pd. Journal of Non-Crystalline Solids, 2006, 352, 2772-2777.	1.5	56
59	Investigations of the stability of {[(tacn)6Fe8(Î¼3-O)2(Î¼2-OH)12]Br7(H2O)}BrÂ·8H2O (Fe8) cluster in aqueous solution by spectroscopic and magnetic methods. Polyhedron, 2006, 25, 113-118.	1.0	7
60	High- and Low-Temperature Crystal and Magnetic Structures of Îµ-Fe2O3and Their Correlation to Its Magnetic Properties. Chemistry of Materials, 2006, 18, 3889-3897.	3.2	150
61	Faraday rotation measurements in maghemite-silica aerogels. Journal of Magnetism and Magnetic Materials, 2006, 301, 175-180.	1.0	12
62	High-quality microwave archaeointensity determinations from an early 18th century ad English brick kiln. Geophysical Journal International, 2005, 161, 653-661.	1.0	33
63	Optimized Synthesis of the Elusive ?-Fe2O3 Phase via Sol?Gel Chemistry.. ChemInform, 2005, 36, no.	0.1	0
64	Magnetic properties of Fe nanoparticle systems. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 127-130.	1.0	15
65	Aerosol nanoparticles in the Fe1â^'xCrx system: Room-temperature stabilization of the Ïƒ phase and Ïƒâ†'Î±-phase transformation. Journal of Applied Physics, 2005, 98, 024303.	1.1	17
66	Large coercivity and low-temperature magnetic reorientation in Îµâ€Fe2O3 nanoparticles. Journal of Applied Physics, 2005, 98, 044307.	1.1	103
67	Effect of surface modifications on magnetic coupling in Fe nanoparticle systems. Physical Review B, 2004, 70, .	1.1	18
68	Ultraporous Single Phase Iron Oxideâ^'Silica Nanostructured Aerogels from Ferrous Precursors. Langmuir, 2004, 20, 1425-1429.	1.6	31
69	Optimized Synthesis of the Elusive Îµ-Fe2O3 Phase via Solâ^'Gel Chemistry. Chemistry of Materials, 2004, 16, 5542-5548.	3.2	128
70	Crystallization of a Alâ€“4Niâ€“6Ce glass and its influence on mechanical properties. Acta Materialia, 2003, 51, 1067-1077.	3.8	33
71	High-coercivity ultralight transparent magnets. Applied Physics Letters, 2003, 82, 4307-4309.	1.5	30
72	Glass forming ability and crystallisation processes within the Alâ€“Niâ€“Sm system. Journal of Non-Crystalline Solids, 2001, 289, 214-220.	1.5	31

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73	Evaluation of the Volume Fraction Crystallised during Devitrification of Al-Based Amorphous Alloys. Materials Science Forum, 2000, 343-346, 365-370.	0.3	32