Miguel Jafelicci

List of Publications by Year
in descending order

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130	2,451	236612	243296
papers	citations	25	44
		h-index	g-index

131	131	131	3779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Luminescent properties and lattice defects correlation on zinc oxide. Solid State Sciences, 2001, 3, 749-754.	0.8	233
2	Synthesis and functionalization of magnetite nanoparticles with different amino-functional alkoxysilanes. Journal of Magnetism and Magnetic Materials, 2012, 324, 534-539.	1.0	218
3	Rhamnolipid emulsifying activity and emulsion stability: pH rules. Colloids and Surfaces B: Biointerfaces, 2011, 85, 301-305.	2.5	103
4	Europium(III)-containing zinc oxide from Pechini method. Journal of Alloys and Compounds, 2002, 344, 280-284.	2.8	94
5	Organophosphate-degrading metallohydrolases: Structure and function of potent catalysts for applications in bioremediation. Coordination Chemistry Reviews, 2016, 317, 122-131.	9.5	83
6	Self-Assembled FePt Nanocrystals with Large Coercivity:Â Reduction of the fcc-to-L10Ordering Temperature. Journal of the American Chemical Society, 2006, 128, 11062-11066.	6.6	76
7	Hollow silica particles from microemulsion. Journal of Non-Crystalline Solids, 1999, 247, 98-102.	1.5	74
8	Structural and magnetic transformation of monodispersed iron oxide particles in a reducing atmosphere. Journal of Applied Physics, 2002, 92, 2079-2085.	1.1	57
9	Adsorption of small, positive particles onto large, negative particles in the presence of polymer. Part 2.â€”Adsorption equilibrium and kinetics as a function of temperature. Journal of the Chemical Society Faraday Transactions I, 1980, 76, 674.	1.0	56
10	Solvothermal method to obtain europium-doped yttrium oxide. Journal of Solid State Chemistry, 2003, 171, 268-272.	1.4	56
11	pH-responsive poly(aspartic acid) hydrogel-coated magnetite nanoparticles for biomedical applications. Materials Science and Engineering C, 2017, 77, 366-373.	3.8	50
12	EDTA-functionalized Fe3O4 nanoparticles. Journal of Physics and Chemistry of Solids, 2018, 113, 5-10.	1.9	48
13	Monodispersed spindle-type goethite nanoparticles from FeIII solutions. Journal of Materials Chemistry, 2002, 12, 3649-3653.	6.7	46
14	Wettability of cotton fabric by aqueous solutions of surfactants with different structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 292, 236-245.	2.3	44
15	Synthesis and colloidal characterization of folic acid-modified PEG-b-PCL Micelles for methotrexate delivery. Colloids and Surfaces B: Biointerfaces, 2019, 177, 228-234.	2.5	43
16	Easily handling penicillin G acylase magnetic cross-linked enzymes aggregates: Catalytic and morphological studies. Process Biochemistry, 2014, 49, 38-46.	1.8	38
17	Impact of Physical Chemical Characteristics of Abutment Implant Surfaces on Bacteria Adhesion. Journal of Oral Implantology, 2016, 42, 153-158.	0.4	38
18	Phase separation in pyrex glass by hydrothermal treatment: evidence from micro-Raman spectroscopy. Journal of Non-Crystalline Solids, 2001, 284, 49-54.	1.5	32

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19	O efeito do ultra-som em reaÃ§Ãµes quÃmicas. Quimica Nova, 2000, 23, 251-256.	0.3	29
20	mPEG-co-PCL nanoparticles: The influence of hydrophobic segment on methotrexate drug delivery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 142-149.	2.3	29
21	Luminescence of Eu(III) Î²-diketone complex supported on functionalized macroporous silica matrix. Solid State Sciences, 2001, 3, 755-762.	0.8	28
22	Thermal decomposition and rehydration of strontium oxalate: morphological evolution. Solid State Sciences, 2001, 3, 443-452.	0.8	28
23	A new Î²-diketone complex with high color purity. Journal of Alloys and Compounds, 2006, 418, 222-225.	2.8	28
24	A long-term controlled drug-delivery with anionic beta cyclodextrin complex in layer-by-layer coating for percutaneous implants devices. Carbohydrate Polymers, 2021, 257, 117604.	5.1	27
25	Formation Mechanism via a Heterocoagulation Approach of FePt Nanoparticles Using the Modified Polyol Process. Journal of Physical Chemistry C, 2011, 115, 10475-10482.	1.5	26
26	Effect of titanium and zirconia dental implant abutments on a cultivable polymicrobial saliva community. Journal of Prosthetic Dentistry, 2017, 118, 481-487.	1.1	26
27	Electroluminescence of a device based on europium Î²-diketonate with phosphine oxide complex. Thin Solid Films, 2006, 515, 927-931.	0.8	25
28	Iron Oxide Versus Fe$_{55}$Pt$_{45}$/Fe$_{3}$O$_{4}$: Improved Magnetic Properties of Core/Shell Nanoparticles for Biomedical Applications. IEEE Transactions on Magnetics, 2008, 44, 4448-4451.	1.2	25
29	Contactless measurement of colossal magnetoresistance in La1â^'xSrxMnO3 using the infrared magnetorefractive effect. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1740-1741.	1.0	24
30	PEGlatyon-SPION surface functionalization with folic acid for magnetic hyperthermia applications. Materials Research Express, 2020, 7, 015078.	0.8	24
31	Synthesis and Electrochemical Behavior of Single-Crystal Magnetite Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 5301-5306.	1.5	23
32	Porous Silica Matrix Obtained from Pyrex Glass by Hydrothermal Treatment: Characterization and Nature of the Porosity. Journal of the American Ceramic Society, 2003, 86, 1196-1201.	1.9	21
33	Synthesis of a functionalized europium complex and deposition of luminescent Langmuirâ€“Blodgett (LB) films. New Journal of Chemistry, 2012, 36, 1978.	1.4	21
34	Magnetic Nanoparticles Obtained by Homogeneous Coprecipitation Sonochemically Assisted. Materials Research, 2015, 18, 220-224.	0.6	21
35	Influence of synthesis experimental parameters on the formation of magnetite nanoparticles prepared by polyol method. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2016, 7, 015014.	0.7	21
36	Silver nanoparticles stabilized by ramnolipids: Effect of pH. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111883.	2.5	20

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37	Magnetic properties of acicular ultrafine iron particles. IEEE Transactions on Magnetics, 2002, 38, 1907-1909.	1.2	18
38	and luminescence in glass ceramic silica. Journal of Luminescence, 2008, 128, 1787-1790.	1.5	18
39	Effect of the combination of several irrigants on dentine surface properties, adsorption of chlorhexidine and adhesion of microorganisms to dentine. International Endodontic Journal, 2018, 51, 1420-1433.	2.3	18
40	Time-resolved spectroscopy studies of Gd2SiO5:Ce3+ from spherical particles. Journal of Alloys and Compounds, 2002, 344, 323-326.	2.8	16
41	Wettability of chlorhexidine treated nonâ€carious and cariesâ€affected dentine. Australian Dental Journal, 2014, 59, 37-42.	0.6	16
42	Analyses of Biofilm on Implant Abutment Surfaces Coating with Diamond-Like Carbon and Biocompatibility. Brazilian Dental Journal, 2017, 28, 317-323.	0.5	16
43	Magnetic cross-linked enzyme aggregates (MCLEAs) applied to biomass conversion. Journal of Solid State Chemistry, 2019, 270, 58-70.	1.4	16
44	Gaussian basis sets to the theoretical study of the electronic structure of perovskite (LaMnO3). Computational and Theoretical Chemistry, 2003, 631, 93-99.	1.5	15
45	Temperature dependence and magnetocrystalline anisotropy studies of self-assembled L10-Fe55Pt45 ferromagnetic nanocrystals. Journal of Applied Physics, 2007, 101, 123918.	1.1	15
46	Bulk and high-energy ball-milled Gd5Si2Ge2: Comparative study of magnetic and magnetocaloric properties. Solid State Sciences, 2011, 13, 209-215.	1.5	15
47	Preparation and characterization of monodisperse iron (III) hydroxide aqueousâ€"ethanolic sols. Journal of Colloid and Interface Science, 1981, 84, 278-280.	5.0	14
48	X-ray powder data and bond valence of La0.65Sr0.35MnO3 after Rietveld refinement. Powder Diffraction, 2002, 17, 149-152.	0.4	14
49	Magnetic properties of acicular Fe1â^'xREx (RE = Nd, Sm, Eu, Tb; x = 0, 0.05, 0.10) metallic nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 112, 188-193.	1.7	14
50	PEGylation of SPIONs by polycondensation reactions: a new strategy to improve colloidal stability in biological media. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	14
51	Esterification influence in thermosensitive behavior of copolymers PNIPAm-co-PAA and PNVCL-co-PAA in magnetic nanoparticles surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 18-26.	2.3	14
52	Investigation of the systems silica and silica containing chromium in alcohol medium. Journal of Non-Crystalline Solids, 1999, 247, 141-145.	1.5	13
53	Effects of organic and inorganic additives on flotation recovery of washed cells of Saccharomyces cerevisiae resuspended in water. Colloids and Surfaces B: Biointerfaces, 2006, 48, 77-83.	2.5	13
54	Wettability of Aqueous Rhamnolipids Solutions Produced by Pseudomonas aeruginosa LBI. Journal of Surfactants and Detergents, 2009, 12, 125-130.	1.0	13

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55	Submicron silica shellâ€“magnetic core preparation and characterization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 537, 318-324.	2.3	12
56	Structured Magnetic Core/Silica Internal Shell Layer and Protein Out Layer Shell (BSA@SiO2@SME): Preparation and Characterization. Chemistry Africa, 2020, 3, 127-134.	1.2	12
57	Synthesis and characterization of magnetic cross-linked enzyme aggregate and its evaluation of the alternating magnetic field (AMF) effects in the catalytic activity. Journal of Magnetism and Magnetic Materials, 2020, 516, 167326.	1.0	12
58	Wettability of polymers by aqueous solution of binary surfactants mixture with regard to adhesion in polymerâ€“solution system Iâ€”Correlation between the adsorption of surfactants mixture and contact angle. International Journal of Adhesion and Adhesives, 2013, 45, 98-105.	1.4	11
59	Surface functionalization of magnetite nanoparticle: A new approach using condensation of alkoxysilanes. Physica B: Condensed Matter, 2017, 521, 141-147.	1.3	11
60	Magnetic nanohydrogel obtained by miniemulsion polymerization of poly(acrylic acid) grafted onto derivatized dextran. Carbohydrate Polymers, 2017, 178, 378-385.	5.1	11
61	Ab initio study of high tridymite by the formalism generator coordinate Hartreeâ€“Fock. Computational and Theoretical Chemistry, 1999, 464, 15-21.	1.5	10
62	Nanoparticle synthesis of La/sub 1-x/Sr/sub x/MnO/sub 3/ (0.1, 0.2 and 0.3) perovskites. IEEE Transactions on Magnetics, 2002, 38, 2892-2894.	1.2	10
63	The change in magnetic properties of Fe3Al compound due to substitution of Fe by Co. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 769-770.	1.0	10
64	Characterization of tetraethylene glycol passivated iron nanoparticles. Applied Surface Science, 2014, 315, 337-345.	3.1	10
65	Evaluation of antiplasmodial activity and cytotoxicity assays of amino acids functionalized magnetite nanoparticles: Hyperthermia and flow cytometry applications. Materials Science and Engineering C, 2021, 125, 112097.	3.8	10
66	AdaptaÃ§Ãµes em forno de microondas domÃ©stico para utilizaÃ§Ã£o em laboratÃ³rio. Quimica Nova, 1997, 20, 89-92.	0.3	8
67	Structural phase transition study of FePt alloys using ab initio calculation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 167-168.	2.6	8
68	Aqueous Nanofluids Based on Copper MPA: Synthesis and Characterization. Materials Research, 2017, 20, 104-110.	0.6	8
69	Aqueous Nanofluids based on Thioglycolic acid-coated copper sulfide nanoparticles for heat-exchange applications. Journal of Molecular Liquids, 2020, 313, 113391.	2.3	8
70	Protein-Silica Hybrid Submicron Particles: Preparation and Characterization. Chemistry Africa, 2020, 3, 793-801.	1.2	8
71	Thermal and Crystalographic Studies of Mixture La2O3-SrO Prepared Via Reaction in the Solid State. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 56, 143-149.	1.4	7
72	Morfologia e cristalinidade de hidroxicarbonato de zinco obtido via precipitaÃ§Ã£o homogÃªnea: influÃªncia dos Ã¢nions cloreto e nitrato. Quimica Nova, 2000, 23, 627-631.	0.3	7

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73	Effects of Different Treatments on Purity of Silica from Soluble Sodium Silicate. Separation Science and Technology, 2000, 35, 287-298.	1.3	7
74	Surfactant Micellization. , 0, , 39-66.		7
75	Development of basis sets to calculations of the electronic structure of YMnO3. Computational and Theoretical Chemistry, 2003, 629, 21-26.	1.5	7
76	Magnetic nanoparticles as a support for a copper (II) complex with nuclease activity. Journal of Inorganic Biochemistry, 2018, 186, 294-300.	1.5	7
77	The influence of pH, hydrolysis and degree of substitution on the temperatureâ€sensitive properties of polyaspartamides. Polymer International, 2019, 68, 88-93.	1.6	7
78	Synthesis of core@shell nanoparticles functionalized with folic acid-modified PCL-co-PEGMA copolymer for methotrexate delivery. Nano Structures Nano Objects, 2021, 25, 100675.	1.9	7
79	Study of crystallite size and strain as a function of morphological evolution in zinc oxide powder obtained from hydroxycarbonate precursor. Powder Diffraction, 2001, 16, 153-159.	0.4	6
80	Red and blue emissions of europium doped gadolinium silicate from porous silica matrix and hydroxide carbonate with spherical shaped particles. Journal of Alloys and Compounds, 2002, 344, 308-311.	2.8	6
81	Langmuirâ€“Blodgett films incorporating an ionic europium complex. Journal of Alloys and Compounds, 2009, 488, 595-598.	2.8	6
82	Gelatin/dextranâ€based hydrogel crossâ€linked by Dielsâ€“Alder click chemistry: the swelling and potassium diclofenac releasing. Medical Devices & Sensors, 2021, 4, e10151.	2.7	6
83	Magnetic Nanoparticles Surface Modified with Biodegradable Polymers for Controled Methotrexate Delivery in Cancer Therapy. Journal of Nanopharmaceutics and Drug Delivery, 2016, 3, 77-84.	0.3	6
84	Silica Morphology Characterized by SEM. The Effects of the Solvent Treatment and the Drying Process. Journal of the Brazilian Chemical Society, 1995, 6, 337-341.	0.6	6
85	Rhamnolipids as Green Stabilizers of nZVI and Application in the Removal of Nitrate From Simulated Groundwater. Frontiers in Bioengineering and Biotechnology, 2022, 10, 794460.	2.0	6
86	Surface engineering of magnetic nanoparticles for hyperthermia and drug delivery. Medical Devices & Sensors, 2020, 3, e10100.	2.7	5
87	Colloidal stability study of Fe3O4-based nanofluids in water and ethylene glycol. Journal of Thermal Analysis and Calorimetry, 2021, 146, 509-520.	2.0	5
88	Study of the colloidal stability and optical properties of sunscreen creams. Ecletica Quimica, 2019, 44, 26.	0.2	5
89	PartÃculas nanomÃ©tricas de ferritas de Ãtrio. Quimica Nova, 1999, 22, 783-786.	0.3	4
90	Microemulsions. , 0, , 139-155.		4

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91	A simple electrochemical method to monitor an azo dye reaction with a liver protein. Analytical Biochemistry, 2018, 553, 46-53.	1.1	4
92	Characterization of the colloidal products of pentacarbonyliron oxidation. Colloids and Surfaces, 1987, 23, 69-81.	0.9	3
93	Yttrium iron garnet heterocoagulated by silica. IEEE Transactions on Magnetics, 2002, 38, 2625-2627.	1.2	3
94	Polymers in Solution. , 0, , 193-214.		3
95	Emulsions and Emulsifiers. , 0, , 451-471.		3
96	Surface Active Polymers. , 0, , 261-276.		3
97	GCHF basis sets and their application in the electronic structure study of PrMnO3. Computational and Theoretical Chemistry, 2004, 668, 113-117.	1.5	3
98	Spherical Particles of Pure and Manganese Doped Zinc Oxide and Zinc Hydroxicarbonate. Materials Research Society Symposia Proceedings, 1994, 372, 69.	0.1	2
99	Chromium-containing silica materials. Journal of Non-Crystalline Solids, 2000, 273, 36-40.	1.5	2
100	Phase Behaviour of Concentrated Surfactant Systems. , 0, , 67-96.		2
101	Foaming of Surfactant Solutions. , 0, , 437-450.		2
102	Intermolecular Interactions. , 0, , 157-174.		2
103	Colloidal Forces. , 0, , 175-191.		2
104	Novel Surfactants. , 0, , 227-259.		2
105	Chemical Reactions in Microheterogeneous Systems. , 0, , 493-517.		2
106	Wetting and Wetting Agents, Hydrophobization and Hydrophobizing Agents. , 0, , 389-402.		2
107	Design of Gaussian basis sets to the theoretical interpretation of IR-spectrum of hexaaquachromium (III) ion, tetraoxochromium (IV) ion, and tetraoxochromium (VI) ion. Computational and Theoretical Chemistry, 2003, 633, 83-92.	1.5	2
108	Geochemical Assessment of a Subtropical Reservoir: A Case Study in Curitiba, Southern Brazil. Clean - Soil, Air, Water, 2012, 40, 364-372.	0.7	2

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109	The Influence of Different Ammonium Cations on the Optical Properties of Tetrakis GdIII and EuIII Complexes. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
110	Magnetic Graphene Oxide as a Carrier for Lipases Immobilization: An Approach for Hydrolysis of Olive Oil Emulsion. ECS Journal of Solid State Science and Technology, 2021, 10, 065008.	0.9	2
111	The Influence of Zinco on Bone Repair: A Literature Review. Revista Virtual De Quimica, 2018, 10, 474-486.	0.1	2
112	Silver nanoparticles effect on drug release of metronidazole in natural rubber latex dressing. Polymer Bulletin, 2022, 79, 9957-9973.	1.7	2
113	Hydrothermal treatment of gadolinium oxide in presence of silica. High Pressure Research, 1994, 12, 353-360.	0.4	1
114	Colloidal Particles: Spherical Yttrium Iron Garnet. Materials Research Society Symposia Proceedings, 1998, 517, 583.	0.1	1
115	Morphology of alumina: a comparison between infrared spectroscopy and X-ray diffractometry. Journal of Non-Crystalline Solids, 1999, 247, 227-231.	1.5	1
116	Interaction of Polymers with Surfaces. , 0, , 403-435.		1
117	Surface Tension and Adsorption at the Airâ€“Water Interface. , 0, , 337-355.		1
118	Spherical particles of phenolic resin treated with iron oxide. Journal of Materials Science, 2008, 43, 3638-3642.	1.7	1
119	Sol-gel based calcium phosphates coating deposited on Co-Cr-Ni-Mo alloys modified by laser beam irradiation for cardiovascular devices. Materials Today: Proceedings, 2019, 14, 663-670.	0.9	1
120	Water-Based Metallic Nickel Magnetic Fluids. Journal of Nanofluids, 2018, 7, 21-25.	1.4	1
121	Iron hydrous oxide isopropanolic gel. Solvothermal treatment. High Pressure Research, 1991, 7, 300-302.	0.4	0
122	Preparationand Properties of Colloidal Particles. Silica on Yttrium Iron Garnet. Materials Research Society Symposia Proceedings, 1999, 581, 21.	0.1	0
123	Adsorption of Surfactants at Solid Surfaces. , 0, , 357-387.		0
124	Regular Solution Theory. , 0, , 215-226.		0
125	Introduction to Surfactants. , 0, , 1-37.		0
126	QuÃmica de materiais em 25 anos de SBQ. Quimica Nova, 2002, 25, 75.	0.3	0

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127	New phosphinate ligand synthesis and its effect on optical properties of the europium Î²-diketonate complex. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S42-S45.	0.8	0
128	Sub-micrometric and nanometric solid phases obtained through reductive decomposition reaction of Î²-cyclodextrin / Î’-siklodekstrin indirgeyici bozunma reaksiyonu yoluyla elde edilen alt mikrometrik ve nanometrik katÄ± fazlar. Turkish Journal of Biochemistry, 2015, 40, .	0.3	0
129	Estudo de alguns esfeitos na precipitaÃ§Ã£o de partÃculas esfÃ©ricas de sÃ‡ica via microemulsÃ£o inversa. Ecletica Quimica, 2002, 27, 329-351.	0.2	0
130	ObtenÃ§Ã£o da fase perovskita via microemulsÃ£o. Ecletica Quimica, 2002, 27, 125-139.	0.2	0