Miguel Jafelicci

List of Publications by Citations

126 papers	2,008 citations	23 h-index	40 g-index
131 ext. papers	2,209 ext. citations	3.7 avg, IF	4.68 L-index

#	Paper	IF	Citations
126	Luminescent properties and lattice defects correlation on zinc oxide. *Solid State Sciences*, **2001**, 3, 749-754		208
125	Synthesis and functionalization of magnetite nanoparticles with different amino-functional alkoxysilanes. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 534-539	2.8	185
124	Europium(III)-containing zinc oxide from Pechini method. *Journal of Alloys and Compounds*, **2002**, 344, 280-284	5.7	86
123	Rhamnolipid emulsifying activity and emulsion stability: pH rules. *Colloids and Surfaces B: Biointerfaces*, **2011**, 85, 301-5	6	76
122	Self-assembled FePt nanocrystals with large coercivity: reduction of the fcc-to-L1(0) ordering temperature. *Journal of the American Chemical Society*, **2006**, 128, 11062-6	16.4	71
121	Organophosphate-degrading metallohydrolases: Structure and function of potent catalysts for applications in bioremediation. *Coordination Chemistry Reviews*, **2016**, 317, 122-131	23.2	67
120	Hollow silica particles from microemulsion. *Journal of Non-Crystalline Solids*, **1999**, 247, 98-102	3.9	65
119	Solvothermal method to obtain europium-doped yttrium oxide. *Journal of Solid State Chemistry*, **2003**, 171, 268-272	3.3	54
118	Adsorption of small, positive particles onto large, negative particles in the presence of polymer. Part 2.âAdsorption equilibrium and kinetics as a function of temperature. *Journal of the Chemical Society Faraday Transactions I*, **1980**, 76, 674		53
117	Structural and magnetic transformation of monodispersed iron oxide particles in a reducing atmosphere. *Journal of Applied Physics*, **2002**, 92, 2079-2085	2.5	52
116	Wettability of cotton fabric by aqueous solutions of surfactants with different structures. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 292, 236-245	5.1	39
115	Monodispersed spindle-type goethite nanoparticles from FeIII solutions. *Journal of Materials Chemistry*, **2002**, 12, 3649-3653		39
114	pH-responsive poly(aspartic acid) hydrogel-coated magnetite nanoparticles for biomedical applications. *Materials Science and Engineering C*, **2017**, 77, 366-373	8.3	38
113	Easily handling penicillin G acylase magnetic cross-linked enzymes aggregates: Catalytic and morphological studies. *Process Biochemistry*, **2014**, 49, 38-46	4.8	34
112	EDTA-functionalized Fe3O4 nanoparticles. *Journal of Physics and Chemistry of Solids*, **2018**, 113, 5-10	3.9	32
111	Phase separation in pyrex glass by hydrothermal treatment: evidence from micro-Raman spectroscopy. *Journal of Non-Crystalline Solids*, **2001**, 284, 49-54	3.9	30
110	Synthesis and colloidal characterization of folic acid-modified PEG-b-PCL Micelles for methotrexate delivery. *Colloids and Surfaces B: Biointerfaces*, **2019**, 177, 228-234	6	29

109	Impact of Physical Chemical Characteristics of Abutment Implant Surfaces on Bacteria Adhesion. *Journal of Oral Implantology*, **2016**, 42, 153-8	1.2	28
108	Thermal decomposition and rehydration of strontium oxalate: morphological evolution. *Solid State Sciences*, **2001**, 3, 443-452		28
107	A new diketone complex with high color purity. *Journal of Alloys and Compounds*, **2006**, 418, 222-225	5.7	26
106	Luminescence of Eu(III) diketone complex supported on functionalized macroporous silica matrix. *Solid State Sciences*, **2001**, 3, 755-762		26
105	Formation Mechanism via a Heterocoagulation Approach of FePt Nanoparticles Using the Modified Polyol Process. *Journal of Physical Chemistry C*, **2011**, 115, 10475-10482	3.8	24
104	Electroluminescence of a device based on europium diketonate with phosphine oxide complex. *Thin Solid Films*, **2006**, 515, 927-931	2.2	24
103	Synthesis and Electrochemical Behavior of Single-Crystal Magnetite Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 5301-5306	3.8	22
102	Contactless measurement of colossal magnetoresistance in La1âSrxMnO3 using the infrared magnetorefractive effect. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1740-1741	2.8	21
101	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	2	20
100	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	3.8	20
99	O efeito do ultra-som em reaes quicas. *Quimica Nova*, **2000**, 23, 251-256	1.6	19
98	Effect of titanium and zirconia dental implant abutments on a cultivable polymicrobial saliva community. *Journal of Prosthetic Dentistry*, **2017**, 118, 481-487	4	18
97	Synthesis of a functionalized europium complex and deposition of luminescent LangmuirâBlodgett (LB) films. *New Journal of Chemistry*, **2012**, 36, 1978	3.6	18
96	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	5.1	18
95	Magnetic Nanoparticles Obtained by Homogeneous Coprecipitation Sonochemically Assisted. *Materials Research*, **2015**, 18, 220-224	1.5	17
94	Magnetic properties of acicular ultrafine iron particles. *IEEE Transactions on Magnetics*, **2002**, 38, 1907-1909	2	17
93	Time-resolved spectroscopy studies of Gd2SiO5:Ce3+ from spherical particles. *Journal of Alloys and Compounds*, **2002**, 344, 323-326	5.7	16
92	PEGlatyon-SPION surface functionalization with folic acid for magnetic hyperthermia applications. *Materials Research Express*, **2020**, 7, 015078	1.7	16

91	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	1.6	16
90	Cr3+ and Cr4+ luminescence in glass ceramic silica. *Journal of Luminescence*, **2008**, 128, 1787-1790	3.8	15
89	Bulk and high-energy ball-milled Gd5Si2Ge2: Comparative study of magnetic and magnetocaloric properties. *Solid State Sciences*, **2011**, 13, 209-215	3.4	14
88	Gaussian basis sets to the theoretical study of the electronic structure of perovskite (LaMnO3). *Computational and Theoretical Chemistry*, **2003**, 631, 93-99		14
87	PEGylation of SPIONs by polycondensation reactions: a new strategy to improve colloidal stability in biological media. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	13
86	Temperature dependence and magnetocrystalline anisotropy studies of self-assembled L10-Fe55Pt45 ferromagnetic nanocrystals. *Journal of Applied Physics*, **2007**, 101, 123918	2.5	13
85	Investigation of the systems silica and silica containing chromium in alcohol medium. *Journal of Non-Crystalline Solids*, **1999**, 247, 141-145	3.9	13
84	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	5.4	12
83	Wettability of chlorhexidine treated non-carious and caries-affected dentine. *Australian Dental Journal*, **2014**, 59, 37-42	2.3	12
82	Magnetic properties of acicular Fe1â□REx (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	3.1	12
81	Preparation and characterization of monodisperse iron (III) hydroxide aqueousâ□ethanolic sols. *Journal of Colloid and Interface Science*, **1981**, 84, 278-280	9.3	12
80	Magnetic cross-linked enzyme aggregates (MCLEAs) applied to biomass conversion. *Journal of Solid State Chemistry*, **2019**, 270, 58-70	3.3	12
79	Magnetic nanohydrogel obtained by miniemulsion polymerization of poly(acrylic acid) grafted onto derivatized dextran. *Carbohydrate Polymers*, **2017**, 178, 378-385	10.3	11
78	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	6	11
77	Analyses of Biofilm on Implant Abutment Surfaces Coating with Diamond-Like Carbon and Biocompatibility. *Brazilian Dental Journal*, **2017**, 28, 317-323	1.9	10
76	Submicron silica shellâ□magnetic core preparation and characterization. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 537, 318-324	5.1	10
75	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	2	10
74	X-ray powder data and bond valence of La0.65Sr0.35MnO3 after Rietveld refinement. *Powder Diffraction*, **2002**, 17, 149-152	1.8	10

73	Characterization of tetraethylene glycol passivated iron nanoparticles. *Applied Surface Science*, **2014**, 315, 337-345	6.7	9
72	Wettability of polymers by aqueous solution of binary surfactants mixture with regard to adhesion in polymerâsolution system Iâcorrelation between the adsorption of surfactants mixture and contact angle. *International Journal of Adhesion and Adhesives*, **2013**, 45, 98-105	3.4	9
71	Wettability of Aqueous Rhamnolipids Solutions Produced by Pseudomonas aeruginosa LBI. *Journal of Surfactants and Detergents*, **2009**, 12, 125-130	1.9	9
70	Ab initio study of high tridymite by the formalism generator coordinate Hartreeâock. *Computational and Theoretical Chemistry*, **1999**, 464, 15-21		9
69	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	10.3	9
68	Surface functionalization of magnetite nanoparticle: A new approach using condensation of alkoxysilanes. *Physica B: Condensed Matter*, **2017**, 521, 141-147	2.8	8
67	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	5.1	8
66	Adaptaes em forno de microondas domstico para utilizao em laboratrio. *Quimica Nova*, **1997**, 20, 89-92	1.6	8
65	Structured Magnetic Core/Silica Internal Shell Layer and Protein Out Layer Shell (BSA@SiO2@SME): Preparation and Characterization. *Chemistry Africa*, **2020**, 3, 127-134	2.2	8
64	Aqueous Nanofluids based on Thioglycolic acid-coated copper sulfide nanoparticles for heat-exchange applications. *Journal of Molecular Liquids*, **2020**, 313, 113391	6	7
63	Protein-Silica Hybrid Submicron Particles: Preparation and Characterization. *Chemistry Africa*, **2020**, 3, 793-801	2.2	7
62	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	2.8	7
61	The influence of pH, hydrolysis and degree of substitution on the temperature-sensitive properties of polyaspartamides. *Polymer International*, **2019**, 68, 88-93	3.3	7
60	Aqueous Nanofluids Based on Copper MPA: Synthesis and Characterization. *Materials Research*, **2017**, 20, 104-110	1.5	6
59	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	5.3	6
58	Development of basis sets to calculations of the electronic structure of YMnO3. *Computational and Theoretical Chemistry*, **2003**, 629, 21-26		6
57	Morfologia e cristalinidade de hidroxicarbonato de zinco obtido via precipitao homogenea: influncia dos ions cloreto e nitrato. *Quimica Nova*, **2000**, 23, 627-631	1.6	6
56	Effects of Different Treatments on Purity of Silica from Soluble Sodium Silicate. *Separation Science and Technology*, **2000**, 35, 287-298	2.5	6

55	Thermal and Crystalographic Studies of Mixture La2O3-SrO Prepared Via Reaction in the Solid State. *Magyar Apr□ad K□alem□yek*, **1999**, 56, 143-149	0	6
54	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	1.5	6
53	Silver nanoparticles stabilized by ramnolipids: Effect of pH. *Colloids and Surfaces B: Biointerfaces*, **2021**, 205, 111883	6	6
52	Langmuir□Blodgett films incorporating an ionic europium complex. *Journal of Alloys and Compounds*, **2009**, 488, 595-598	5.7	5
51	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	5.7	5
50	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	1.8	5
49	Magnetic Nanoparticles Surface Modified with Biodegradable Polymers for Controled Methotrexate Delivery in Cancer Therapy. *Journal of Nanopharmaceutics and Drug Delivery*, **2016**, 3, 77-84		5
48	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	2.8	5
47	Microemulsions139-155		4
46	Part□culas nanom□tricas de ferritas de □rio. *Quimica Nova*, **1999**, 22, 783-786	1.6	4
45	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	8.3	4
44	Synthesis of core@shell nanoparticles functionalized with folic acid-modified PCL-co-PEGMA copolymer for methotrexate delivery. *Nano Structures Nano Objects*, **2021**, 25, 100675	5.6	4
43	Surface engineering of magnetic nanoparticles for hyperthermia and drug delivery. *Medical Devices & Sensors*, **2020**, 3, e10100	1.6	3
42	A simple electrochemical method to monitor an azo dye reaction with a liver protein. *Analytical Biochemistry*, **2018**, 553, 46-53	3.1	3
41	Polymers in Solution193-214		3
40	Surface Active Polymers261-276		3
39	Colloidal stability study of Fe3O4-based nanofluids in water and ethylene glycol. *Journal of Thermal Analysis and Calorimetry*, **2021**, 146, 509-520	4.1	3
38	Magnetic nanoparticles as a support for a copper (II) complex with nuclease activity. *Journal of Inorganic Biochemistry*, **2018**, 186, 294-300	4.2	3

37	Geochemical Assessment of a Subtropical Reservoir: A Case Study in Curitiba, Southern Brazil. *Clean - Soil, Air, Water*, **2012**, 40, 364-372	1.6	2
36	GCHF basis sets and their application in the electronic structure study of PrMnO3. *Computational and Theoretical Chemistry*, **2004**, 668, 113-117		2
35	Phase Behaviour of Concentrated Surfactant Systems67-96		2
34	Yttrium iron garnet heterocoagulated by silica. *IEEE Transactions on Magnetics*, **2002**, 38, 2625-2627	2	2
33	Emulsions and Emulsifiers451-471		2
32	Surfactant Micellization39-66		2
31	Colloidal Forces175-191		2
30	Chemical Reactions in Microheterogeneous Systems493-517		2
29	Wetting and Wetting Agents, Hydrophobization and Hydrophobizing Agents389-402		2
28	Chromium-containing silica materials. *Journal of Non-Crystalline Solids*, **2000**, 273, 36-40	3.9	2
27	Spherical Particles of Pure and Manganese Doped Zinc Oxide and Zinc Hydroxicarbonate. *Materials Research Society Symposia Proceedings*, **1994**, 372, 69		2
26	Characterization of the colloidal products of pentacarbonyliron oxidation. *Colloids and Surfaces*, **1987**, 23, 69-81		2
25	The Influence of Zinco on Bone Repair: A Literature Review. *Revista Virtual De Quimica*, **2018**, 10, 474-486	1.3	2
24	Spherical particles of phenolic resin treated with iron oxide. *Journal of Materials Science*, **2008**, 43, 3638-3642	4.5	1
23	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
22	Interaction of Polymers with Surfaces403-435		1
21	Foaming of Surfactant Solutions437-450		1
20	Surface Tension and Adsorption at the Airâ€Water Interface337-355		1

19	Intermolecular Interactions157-174		1
18	Novel Surfactants227-259		1
17	Colloidal Particles: Spherical Yttrium Iron Garnet. *Materials Research Society Symposia Proceedings*, **1998**, 517, 583		1
16	Morphology of alumina: a comparison between infrared spectroscopy and X-ray diffractometry. *Journal of Non-Crystalline Solids*, **1999**, 247, 227-231	3.9	1
15	Hydrothermal treatment of gadolinium oxide in presence of silica. *High Pressure Research*, **1994**, 12, 353-360		1
14	Gelatin/dextran-based hydrogel cross-linked by Diels–Alder click chemistry: the swelling and potassium diclofenac releasing. *Medical Devices & Sensors*, **2021**, 4, e10151	1.6	1
13	Drug Delivery and Magnetic Hyperthermia Based on Surface Engineering of Magnetic Nanoparticles **2021**, 231-249		1
12	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	1.4	0
11	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	2	0
10	Silver nanoparticles effect on drug release of metronidazole in natural rubber latex dressing. *Polymer Bulletin*,1	2.4	0
9	Rhamnolipids as Green Stabilizers of nZVI and Application in the Removal of Nitrate From Simulated Groundwater.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 794460	5.8	0
8	New phosphinate ligand synthesis and its effect on optical properties of the europium diketonate complex. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, S42-S45		
7	Adsorption of Surfactants at Solid Surfaces357-387		
6	Regular Solution Theory215-226		
5	Introduction to Surfactants1-37		
4	Preparationand Properties of Colloidal Particles. Silica on Yttrium Iron Garnet. *Materials Research Society Symposia Proceedings*, **1999**, 581, 21		
3	Iron hydrous oxide isopropanolic gel. Solvothermal treatment. *High Pressure Research*, **1991**, 7, 300-302	1.6	
2	Estudo de alguns esfeitos na precipitação de partículas esféricas de sílica via microemulsão inversa. *Ecletica Quimica*, **2002**, 27, 329-351	2.6	

1 Obtenção da fase peroviskita via microemulsão. *Ecletica Quimica*, **2002**, 27, 125-139 2.6