

Pedro Tartaj

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93
papers

5,250
citations

35
h-index

71
g-index

102
ext. papers

5,478
ext. citations

7.4
avg, IF

5.59
L-index

#	Paper	IF	Citations
93	The preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, R182-R197	3	1490
92	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 224002	3	295
91	Synthesis of monodisperse superparamagnetic Fe/silica nanospherical composites. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15754-5	16.4	220
90	Single-Step Nanoengineering of Silica Coated Maghemite Hollow Spheres with Tunable Magnetic Properties. <i>Advanced Materials</i> , 2001 , 13, 1620-1624	24	207
89	Advances in magnetic nanoparticles for biotechnology applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 28-34	2.8	190
88	Fe-based nanoparticulate metallic alloys as contrast agents for magnetic resonance imaging. <i>Biomaterials</i> , 2005 , 26, 5695-703	15.6	106
87	Synthetic Route to Nanocomposites Made Up of Inorganic Nanoparticles Confined within a Hollow Mesoporous Carbon Shell. <i>Chemistry of Materials</i> , 2007 , 19, 5418-5423	9.6	94
86	Surface Enthalpy, Enthalpy of Water Adsorption, and Phase Stability in Nanocrystalline Monoclinic Zirconia. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 133-140	3.8	90
85	Microemulsion-Assisted Synthesis of Tunable Superparamagnetic Composites. <i>Chemistry of Materials</i> , 2002 , 14, 4396-4402	9.6	89
84	A Facile Route for the Preparation of Superparamagnetic Porous Carbons. <i>Chemistry of Materials</i> , 2006 , 18, 1675-1679	9.6	81
83	Magnetic Behavior of Fe ₂ O ₃ Nanocrystals Dispersed in Colloidal Silica Particles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 20-24	3.4	73
82	Synthesis of Nanomagnets Dispersed in Colloidal Silica Cages with Applications in Chemical Separation. <i>Langmuir</i> , 2002 , 18, 4556-4558	4	73
81	Magnetic behavior of superparamagnetic Fe nanocrystals confined inside submicron-sized spherical silica particles. <i>Physical Review B</i> , 2004 , 69,	3.3	72
80	Preparation, Characterization, and Enzyme Immobilization Capacities of Superparamagnetic Silica/Iron Oxide Nanocomposites with Mesoporous Porosity. <i>Chemistry of Materials</i> , 2009 , 21, 1806-1814	9.6	66
79	Interfacial and Rheological Characteristics of Maghemite Aqueous Suspensions. <i>Journal of Colloid and Interface Science</i> , 1998 , 205, 470-475	9.3	65
78	Sub-100 nm TiO ₂ mesocrystalline assemblies with mesopores: preparation, characterization, enzyme immobilization and photocatalytic properties. <i>Chemical Communications</i> , 2011 , 47, 256-8	5.8	63
77	Monodisperse carbon-polymer mesoporous spheres with magnetic functionality and adjustable pore-size distribution. <i>Small</i> , 2007 , 3, 275-9	11	61

76	Nanomagnets-From Fundamental Physics to Biomedicine. <i>Current Nanoscience</i> , 2006 , 2, 43-53	1.4	61
75	Fabrication of Monodisperse Mesoporous Carbon Capsules Decorated with Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3648-3654	3.8	59
74	Multifunctional response of anatase nanostructures based on 25 nm mesocrystal-like porous assemblies. <i>Advanced Materials</i> , 2011 , 23, 4904-7	24	58
73	Core-shell iron-iron oxide nanoparticles synthesized by laser-induced pyrolysis. <i>Small</i> , 2006 , 2, 1476-83	11	58
72	Surface Instability of Serpentine in Aqueous Suspensions. <i>Journal of Colloid and Interface Science</i> , 2000 , 231, 176-181	9.3	54
71	chapter 5 Synthesis, Properties and Biomedical Applications of Magnetic Nanoparticles. <i>Handbook of Magnetic Materials</i> , 2006 , 16, 403-482	1.3	53
70	Structural and magnetic transformation of monodispersed iron oxide particles in a reducing atmosphere. <i>Journal of Applied Physics</i> , 2002 , 92, 2079-2085	2.5	52
69	A Facile Synthetic Route for the Preparation of Superparamagnetic Iron Oxide Nanorods and Nanorices with Tunable Surface Functionality. <i>Advanced Materials</i> , 2008 , 20, 1760-1765	24	45
68	Microstructural Evolution of Iron-Oxide-Doped Alumina Nanoparticles Synthesized from Microemulsions. <i>Chemistry of Materials</i> , 2002 , 14, 536-541	9.6	43
67	Preparation of high acicular and uniform goethite particles by a modified-carbonate route. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2561-2565		42
66	Computational Investigation of Li Insertion in Li ₃ VO ₄ . <i>Chemistry of Materials</i> , 2016 , 28, 5643-5651	9.6	40
65	Iron Zircon Pigments Prepared by Pyrolysis of Aerosols. <i>Journal of Solid State Chemistry</i> , 1997 , 128, 102-108	3.9	39
64	Iron oxide porous nanorods with different textural properties and surface composition: Preparation, characterization and electrochemical lithium storage capabilities. <i>Journal of Power Sources</i> , 2011 , 196, 2164-2170	8.9	38
63	Zircon formation from amorphous spherical ZrSiO ₄ particles obtained by hydrolysis of aerosols. <i>Journal of Materials Science</i> , 1994 , 29, 6533-6538	4.3	38
62	Aerosol-Assisted Synthesis of Colloidal Aggregates with Different Morphology: Toward the Electrochemical Optimization of Li ₃ VO ₄ Battery Anodes Using Scalable Routes. <i>Chemistry of Materials</i> , 2016 , 28, 986-993	9.6	37
61	From Hollow to Dense Spheres: Control of Dipolar Interactions by Tailoring the Architecture in Colloidal Aggregates of Superparamagnetic Iron Oxide Nanocrystals. <i>Advanced Materials</i> , 2004 , 16, 529-533	24	37
60	TiO Nanostructures as Anode Materials for Li/Na-Ion Batteries. <i>Chemical Record</i> , 2018 , 18, 1178-1191	6.6	35
59	Valence and Localization of Praseodymium in Pr-Doped Zircon. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 412-415	3.3	35

58	Preparation, Characterization, and Magnetic Properties of Fe-Based Alloy Particles with Elongated Morphology. <i>Chemistry of Materials</i> , 2003 , 15, 3558-3563	9.6	34
57	The formation of zircon from amorphous ZrO ₂ - SiO ₂ powders. <i>Journal of Materials Science</i> , 1996 , 31, 6089-6094	4.3	34
56	Superparamagnetic Composites: Magnetism with No Memory. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 333-343	2.3	33
55	The effects of the NaF flux on the oxidation state and localisation of praseodymium in Pr-doped zircon pigments. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 641-648	6	32
54	Infrared optical properties of zircon. <i>Materials Research Bulletin</i> , 1994 , 29, 417-426	5.1	32
53	Magnetically separable bimodal mesoporous carbons with a large capacity for the immobilization of biomolecules. <i>Carbon</i> , 2009 , 47, 2519-2527	10.4	31
52	Yttria-Coated FeCo Magnetic Nanoneedles. <i>Chemistry of Materials</i> , 2004 , 16, 3119-3124	9.6	31
51	Electrokinetic Behavior and Stability of Silicon Carbide Nanoparticulate Dispersions. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 389-394	3.8	31
50	Spectroscopic Studies on the Localization of Vanadium(IV) in Vanadium-Doped Zircon Pigments. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 395-400	3.8	30
49	Signatures of clustering in superparamagnetic colloidal nanocomposites of an inorganic and hybrid nature. <i>Small</i> , 2008 , 4, 254-61	11	29
48	Preparation, characterization and sintering behavior of spherical iron oxide doped alumina particles. <i>Acta Materialia</i> , 2002 , 50, 5-12	8.4	28
47	Facile synthetic route to nanosized ferrites by using mesoporous silica as a hard template. <i>Nanotechnology</i> , 2007 , 18, 145603	3.4	27
46	Preparation of nanospherical amorphous zirconpowders by a microemulsion-mediated process. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2786-2790		27
45	Two-Stage Sintering of Nanosize Pure Zirconia. <i>Journal of the American Ceramic Society</i> , 2009 , 92, S103-S106	3.1	26
44	Metallic nanomagnets randomly dispersed in spherical colloids: toward a universal route for the preparation of colloidal composites containing nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6304-7	16.4	26
43	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. <i>Chemical Communications</i> , 2014 , 50, 2077-88	5.8	22
42	Probing nanomagnets interactions inside colloidal superparamagnetic composites: aerosol versus surface template methods. <i>ChemPhysChem</i> , 2003 , 4, 1371-5	3.2	22
41	Preparation of Blue Vanadium-Zircon Pigments by Aerosols Hydrolysis. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1147-1152	3.8	22

40	Templated Synthesis of Mesoporous Superparamagnetic Polymers. <i>Advanced Functional Materials</i> , 2007 , 17, 2321-2327	15.6	21
39	Fabrication of mesoporous SiO ₂ -C-Fe ₃ O ₄ /gamma-Fe ₂ O ₃ and SiO ₂ -C-Fe magnetic composites. <i>Journal of Colloid and Interface Science</i> , 2009 , 340, 230-6	9.3	20
38	Electrochemical response in aprotic ionic liquid electrolytes of TiO ₂ anatase anodes based on mesoporous mesocrystals with uniform colloidal size. <i>Journal of Power Sources</i> , 2015 , 273, 368-374	8.9	19
37	Iron oxide nanosized clusters embedded in porous nanorods: a new colloidal design to enhance capabilities of MRI contrast agents. <i>ACS Nano</i> , 2010 , 4, 2095-103	16.7	19
36	Aggregation state and magnetic properties of magnetite nanoparticles controlled by an optimized silica coating. <i>Journal of Applied Physics</i> , 2017 , 121, 044304	2.5	18
35	Origin of color in aerosol-derived vanadium-doped zirconia pigments. <i>Journal of Materials Research</i> , 1998 , 13, 413-420	2.5	18
34	Asymmetrical imidazolium-trialkylammonium room temperature dicationic ionic liquid electrolytes for Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 280, 171-180	6.7	18
33	Zircon Formation from Nanosized Powders Obtained by a Reverse Micelle Process. <i>Journal of the American Ceramic Society</i> , 2004 , 88, 222-224	3.8	17
32	Preparation by hydrolysis of aerosols and colour properties of Cr-doped and Co-doped zircon powders. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 821-830	6	16
31	Controlled release of precipitating agents through solvothermal destabilization of microemulsions: one-pot synthesis of monoclinic zirconia nanostructures. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1958-1963		16
30	CaSO ₄ Mineralization in Carboxy- and Amino-Functionalized Reverse Micelles Unravels Shape-Dependent Transformations and Long-Term Stabilization Pathways for Poorly Hydrated Nanophases (Bassanite). <i>Crystal Growth and Design</i> , 2015 , 15, 2809-2816	3.5	15
29	Layered manganates from soft-templates: preparation, characterization and enhanced dye demethylation capabilities. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17718		15
28	Controlled formation of porous magnetic nanorods via a liquid/liquid solvothermal method. <i>Chemical Communications</i> , 2008 , 4168-70	5.8	15
27	Synthesis of acicular Fe ₃ O ₄ nanoparticles and the effect of Al addition on their magnetic properties. <i>Nanotechnology</i> , 2004 , 15, S190-S196	3.4	15
26	Straightforward High-Pressure Synthesis and Characterization of Indium-Based Thiospinels: Photocatalytic Potential for Hydrogen Production. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 1558-1565	2.3	11
25	Toward a Better Understanding and Optimization of the Electrochemical Activity of Na-Ion TiO ₂ Anatase Anodes Using Uniform Nanostructures and Ionic Liquid Electrolytes. <i>ACS Omega</i> , 2017 , 2, 3647-3657	3.9	10
24	Operando monitoring the nanometric morphological evolution of TiO ₂ nanoparticles in a Na-ion battery. <i>Materials Today Energy</i> , 2018 , 10, 23-27	7	9
23	Mineral-Content and Particle-Size Effects on the Colloidal Properties of Concentrated Lateritic Suspensions. <i>Clays and Clay Minerals</i> , 1999 , 47, 515-521	2.1	9

22	Probing the Catalytic Activity of Sulfate-Derived Pristine and Post-Treated Porous TiO(101) Anatase Mesocrystals by the Oxidative Desulfurization of Dibenzothiophenes. <i>ACS Omega</i> , 2017 , 2, 2351-2359	3.9	8
21	Sol-gel Cyclic Self-Production of γ -Al ₂ O ₃ Nanoseeds as a Convenient Route for the Low Cost Preparation of Dense Submicronic Alumina Sintered Monoliths. <i>Advanced Engineering Materials</i> , 2002 , 4, 17-21	3.5	8
20	Acicular Metallic Particles Obtained from Al-Doped Goethite Precursors. <i>Chemistry of Materials</i> , 2003 , 15, 951-957	9.6	8
19	Rheological properties of concentrated lateritic suspensions 1996 , 266-270		8
18	Engineering Iron Oxide Nanocatalysts by a Microwave-Assisted Polyol Method for the Magnetically Induced Degradation of Organic Pollutants. <i>Nanomaterials</i> , 2021 , 11,	5.4	8
17	Biomedical Applications of Organic-Inorganic Hybrid Nanoparticles 2009 , 707-768		8
16	Thermally driven self-assembly of nanomicelles: a facile route to functional monodisperse mesoporous colloidal nanocomposites of inorganic nature and mesoscale size. <i>Small</i> , 2010 , 6, 880-6	11	7
15	Surfactant-Free Vanadium Oxides from Reverse Micelles and Organic Oxidants: Solution Processable Nanoribbons with Potential Applicability as Battery Insertion Electrodes Assembled in Different Configurations. <i>Langmuir</i> , 2015 , 31, 12489-96	4	6
14	Dissimilar Crystal Dependence of Vanadium Oxide Cathodes in Organic Carbonate and Safe Ionic Liquid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2132-41	9.5	4
13	Facile and predictable synthesis of dual mesoporous-mesosize nanostructures through thermally-driven self-assembly of nanodroplets. <i>Chemical Communications</i> , 2009 , 3228-30	5.8	4
12	Direct aerosol synthesis of carboxy-functionalized iron oxide colloids displaying reversible magnetic behavior. <i>Journal of Colloid and Interface Science</i> , 2007 , 309, 68-71	9.3	4
11	Correlation between microstructural features and magnetic behavior of Fe-based metallic nanoneedles. <i>Acta Materialia</i> , 2006 , 54, 219-224	8.4	4
10	Unravelling an amine-regulated crystallization crossover to prove single/multicore effects on the biomedical and environmental catalytic activity of magnetic iron oxide colloids. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1585-1597	9.3	4
9	Biomedical Applications of Magnetic Nanoparticles 2007 , 1-7		3
8	Metallic Nanomagnets Randomly Dispersed in Spherical Colloids: Toward a Universal Route for the Preparation of Colloidal Composites Containing Nanoparticles. <i>Angewandte Chemie</i> , 2004 , 116, 6464-6467	3.6	3
7	Relationship between the colloidal and rheological properties of mineral suspensions. <i>Canadian Journal of Chemical Engineering</i> , 2001 , 79, 608-611	2.3	3
6	Influence of silicate- and magnesium-specific adsorption and particle shape on the rheological behavior of mixed serpentine-goethite suspensions. <i>Clays and Clay Minerals</i> , 2002 , 50, 342-347	2.1	3
5	Preparation of Magnetic Nanoparticles for Applications in Biomedicine 2019 , 52-67		2

4	Large-scale synthesis of porous magnetic composites for catalytic applications. <i>Studies in Surface Science and Catalysis</i> , 2010 , 347-350	1.8	1
3	Biomedical Applications of Magnetic Nanoparticles 2007 , 1-7		1
2	Microstructural Bases for the Superior Densification of Gels doped with Alumina Nanoseeds. <i>Advanced Engineering Materials</i> , 2006 , 8, 93-97	3.5	1
1	A Sustainable Self-Induced Solution Seeding Approach for Multipurpose BiFeO ₃ Active Layers in Flexible Electronic Devices. <i>Advanced Functional Materials</i> , 2112944	15.6	1