

Pedro Tartaj

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1111873/pedro-tartaj-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
92	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
91	Preparation of Magnetic Nanoparticles for Applications in Biomedicine 2019 , 52-67		2
90	TiO Nanostructures as Anode Materials for Li/Na-Ion Batteries. <i>Chemical Record</i> , 2018 , 18, 1178-1191	6.6	35
89	Operando monitoring the nanometric morphological evolution of TiO nanoparticles in a Na-ion battery. <i>Materials Today Energy</i> , 2018 , 10, 23-27	7	9
88	Asymmetrical imidazolium-trialkylammonium room temperature dicationic ionic liquid electrolytes for Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 280, 171-180	6.7	18
87	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
86	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
85	Toward a Better Understanding and Optimization of the Electrochemical Activity of Na-Ion TiO Anatase Anodes Using Uniform Nanostructures and Ionic Liquid Electrolytes. <i>ACS Omega</i> , 2017 , 2, 3647-3657	3.9	10
84	Computational Investigation of Li Insertion in Li ₃ VO ₄ . <i>Chemistry of Materials</i> , 2016 , 28, 5643-5651	9.6	40
83	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
82	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
81	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
80	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
79	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
78	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
77	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. <i>Chemical Communications</i> , 2014 , 50, 2077-88	5.8	22

76	Layered manganates from soft-templates: preparation, characterization and enhanced dye demethylation capabilities. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17718		15
75	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
74	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
73	Multifunctional response of anatase nanostructures based on 25 nm mesocrystal-like porous assemblies. <i>Advanced Materials</i> , 2011 , 23, 4904-7	24	58
72	Large-scale synthesis of porous magnetic composites for catalytic applications. <i>Studies in Surface Science and Catalysis</i> , 2010 , 347-350	1.8	1
71	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
70	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
69	Superparamagnetic Composites: Magnetism with No Memory. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 333-343	2.3	33
68	Two-Stage Sintering of Nanosize Pure Zirconia. <i>Journal of the American Ceramic Society</i> , 2009 , 92, S103-S106	3.06	26
67	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
66	Fabrication of mesoporous SiO ₂ -C-Fe ₃ O ₄ /γ-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
65	Magnetically separable bimodal mesoporous carbons with a large capacity for the immobilization of biomolecules. <i>Carbon</i> , 2009 , 47, 2519-2527	10.4	31
64	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 224002	3	295
63	Preparation, Characterization, and Enzyme Immobilization Capacities of Superparamagnetic Silica/Iron Oxide Nanocomposites with Mesostructured Porosity. <i>Chemistry of Materials</i> , 2009 , 21, 1806-1814	9.6	66
62	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
61	Biomedical Applications of Organic/Inorganic Hybrid Nanoparticles 2009 , 707-768		8
60	Controlled formation of porous magnetic nanorods via a liquid/liquid solvothermal method. <i>Chemical Communications</i> , 2008 , 4168-70	5.8	15
59	Fabrication of Monodisperse Mesoporous Carbon Capsules Decorated with Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3648-3654	3.8	59

58	Signatures of clustering in superparamagnetic colloidal nanocomposites of an inorganic and hybrid nature. <i>Small</i> , 2008 , 4, 254-61	11	29
57	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
56	Biomedical Applications of Magnetic Nanoparticles 2007 , 1-7		3
55	Facile synthetic route to nanosized ferrites by using mesoporous silica as a hard template. <i>Nanotechnology</i> , 2007 , 18, 145603	3-4	27
54	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
53	Templated Synthesis of Mesoporous Superparamagnetic Polymers. <i>Advanced Functional Materials</i> , 2007 , 17, 2321-2327	15.6	21
52	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
51	Monodisperse carbon-polymer mesoporous spheres with magnetic functionality and adjustable pore-size distribution. <i>Small</i> , 2007 , 3, 275-9	11	61
50	Biomedical Applications of Magnetic Nanoparticles 2007 , 1-7		1
49	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
48	Microstructural Bases for the Superior Densification of Gels doped with Alumina Nanoseeds. <i>Advanced Engineering Materials</i> , 2006 , 8, 93-97	3-5	1
47	A Facile Route for the Preparation of Superparamagnetic Porous Carbons. <i>Chemistry of Materials</i> , 2006 , 18, 1675-1679	9.6	81
46	Nanomagnets-From Fundamental Physics to Biomedicine. <i>Current Nanoscience</i> , 2006 , 2, 43-53	1.4	61
45	Core-shell iron-iron oxide nanoparticles synthesized by laser-induced pyrolysis. <i>Small</i> , 2006 , 2, 1476-83	11	58
44	Correlation between microstructural features and magnetic behavior of Fe-based metallic nanoneedles. <i>Acta Materialia</i> , 2006 , 54, 219-224	8.4	4
43	chapter 5 Synthesis, Properties and Biomedical Applications of Magnetic Nanoparticles. <i>Handbook of Magnetic Materials</i> , 2006 , 16, 403-482	1-3	53
42	Electrokinetic Behavior and Stability of Silicon Carbide Nanoparticulate Dispersions. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 389-394	3.8	31
41	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

40	Advances in magnetic nanoparticles for biotechnology applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 28-34	2.8	190
39	Fe-based nanoparticulate metallic alloys as contrast agents for magnetic resonance imaging. <i>Biomaterials</i> , 2005 , 26, 5695-703	15.6	106
38	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
37	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
36	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	3.4	37
35	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	2.6	3
34	Magnetic behavior of superparamagnetic Fe nanocrystals confined inside submicron-sized spherical silica particles. <i>Physical Review B</i> , 2004 , 69,	3.3	72
33	Yttria-Coated FeCo Magnetic Nanoneedles. <i>Chemistry of Materials</i> , 2004 , 16, 3119-3124	9.6	31
32	Synthesis of acicular FeCo nanoparticles and the effect of Al addition on their magnetic properties. <i>Nanotechnology</i> , 2004 , 15, S190-S196	3.4	15
31	The preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, R182-R197	3	1490
30	Probing nanomagnets interactions inside colloidal superparamagnetic composites: aerosol versus surface template methods. <i>ChemPhysChem</i> , 2003 , 4, 1371-5	3.2	22
29	Acicular Metallic Particles Obtained from Al-Doped Goethite Precursors. <i>Chemistry of Materials</i> , 2003 , 15, 951-957	9.6	8
28	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
27	Synthesis of monodisperse superparamagnetic Fe/silica nanospherical composites. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15754-5	16.4	220
26	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
25	Sol-gel Cyclic Self-Production of 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
24	Preparation, characterization and sintering behavior of spherical iron oxide doped alumina particles. <i>Acta Materialia</i> , 2002 , 50, 5-12	8.4	28
23	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

22	Microemulsion-Assisted Synthesis of Tunable Superparamagnetic Composites. <i>Chemistry of Materials</i> , 2002 , 14, 4396-4402	9.6	89
21	Microstructural Evolution of Iron-Oxide-Doped Alumina Nanoparticles Synthesized from Microemulsions. <i>Chemistry of Materials</i> , 2002 , 14, 536-541	9.6	43
20	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
19	Synthesis of Nanomagnets Dispersed in Colloidal Silica Cages with Applications in Chemical Separation. <i>Langmuir</i> , 2002 , 18, 4556-4558	4	73
18	Relationship between the colloidal and rheological properties of mineral suspensions. <i>Canadian Journal of Chemical Engineering</i> , 2001 , 79, 608-611	2.3	3
17	Single-Step Nanoengineering of Silica Coated Maghemite Hollow Spheres with Tunable Magnetic Properties. <i>Advanced Materials</i> , 2001 , 13, 1620-1624	24	207
16	Surface Instability of Serpentine in Aqueous Suspensions. <i>Journal of Colloid and Interface Science</i> , 2000 , 231, 176-181	9.3	54
15	Preparation of high acicular and uniform goethite particles by a modified-carbonate route. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2561-2565		42
14	Preparation of nanospherical amorphous zircon powders by a microemulsion-mediated process. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2786-2790		27
13	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
12	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
11	Interfacial and Rheological Characteristics of Maghemite Aqueous Suspensions. <i>Journal of Colloid and Interface Science</i> , 1998 , 205, 470-475	9.3	65
10	Valence and Localization of Praseodymium in Pr-Doped Zircon. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 412-415	3.3	35
9	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
8	Origin of color in aerosol-derived vanadium-doped zirconia pigments. <i>Journal of Materials Research</i> , 1998 , 13, 413-420	2.5	18
7	Iron Zircon Pigments Prepared by Pyrolysis of Aerosols. <i>Journal of Solid State Chemistry</i> , 1997 , 128, 102-108	3.5	39
6	Rheological properties of concentrated lateritic suspensions 1996 , 266-270		8
5	The formation of zircon from amorphous ZrO ₂ · SiO ₂ powders. <i>Journal of Materials Science</i> , 1996 , 31, 6089-6094	4.3	34

4	Preparation of Blue Vanadium-Zircon Pigments by Aerosols Hydrolysis. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1147-1152	3.8	22
3	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
2	Infrared optical properties of zircon. <i>Materials Research Bulletin</i> , 1994 , 29, 417-426	5.1	32
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