Francisco J Teran

List of Publications by Year in Descending Order

66 papers	2,190 citations	27 h-index	46 g-index
72 ext. papers	2,497 ext. citations	4.9 avg, IF	4.72 L-index

#	Paper	IF	Citations
66	Infrared-Emitting Multimodal Nanostructures for Controlled In Vivo Magnetic Hyperthermia. *Advanced Materials*, **2021**, 33, e2100077	24	11
65	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. *Nanoscale*, **2021**, 13, 14552-14571	7.7	7
64	Whither Magnetic Hyperthermia? A Tentative Roadmap. *Materials*, **2021**, 14,	3.5	39
63	Di- and tri-component spinel ferrite nanocubes: synthesis and their comparative characterization for theranostic applications. *Nanoscale*, **2021**, 13, 13665-13680	7.7	4
62	Confining Iron Oxide Nanocubes inside Submicrometric Cavities as a Key Strategy To Preserve Magnetic Heat Losses in an Intracellular Environment. *ACS Applied Materials & Interfaces*, **2019**, 11, 41957-41971	9.5	31
61	Instrumentation for Magnetic Hyperthermia **2019**, 111-138		3
60	Esterase-Cleavable 2D Assemblies of Magnetic Iron Oxide Nanocubes: Exploiting Enzymatic Polymer Disassembling To Improve Magnetic Hyperthermia Heat Losses. *Chemistry of Materials*, **2019**, 31, 5450-5463	9.6	24
59	Iron-Based Core-Shell Nanowires for Combinatorial Drug Delivery and Photothermal and Magnetic Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 43976-43988	9.5	19
58	Dynamical Magnetic Response of Iron Oxide Nanoparticles Inside Live Cells. *ACS Nano*, **2018**, 12, 2741-2752	15.7	85
57	Optomagnetic Nanoplatforms for In Situ Controlled Hyperthermia. *Advanced Functional Materials*, **2018**, 28, 1704434	15.6	46
56	Fe Deficiencies, FeO Subdomains, and Structural Defects Favor Magnetic Hyperthermia Performance of Iron Oxide Nanocubes into Intracellular Environment. *Nano Letters*, **2018**, 18, 6856-6866	11.5	40
55	Current Outlook and Perspectives on Nanoparticle-Mediated Magnetic Hyperthermia **2018**, 197-245		31
54	Unraveling viscosity effects on the hysteresis losses of magnetic nanocubes. *Nanoscale*, **2017**, 9, 5094-5101	7.7	53
53	Elucidation of the Physicochemical Properties Ruling the Colloidal Stability of Iron Oxide Nanoparticles under Physiological Conditions. *ChemNanoMat*, **2017**, 3, 183-189	3.5	15
52	Emergence of the Stoner-Wohlfarth astroid in thin films at dynamic regime. *Scientific Reports*, **2017**, 7, 13474	4.9	7
51	Nanoparticle-based hyperthermia distinctly impacts production of ROS, expression of Ki-67, TOP2A, and TPX2, and induction of apoptosis in pancreatic cancer. *International Journal of Nanomedicine*, **2017**, 12, 1009-1018	7.3	37
50	Functionalized magnetic nanowires for chemical and magneto-mechanical induction of cancer cell death. *Scientific Reports*, **2016**, 6, 35786	4.9	47

49	Effects of inter- and intra-aggregate magnetic dipolar interactions on the magnetic heating efficiency of iron oxide nanoparticles. *Physical Chemistry Chemical Physics*, **2016**, 18, 10954-63	3.6	94
48	In Vivo Deep Tissue Fluorescence and Magnetic Imaging Employing Hybrid Nanostructures. *ACS Applied Materials & Interfaces*, **2016**, 8, 1406-14	9.5	47
47	Note: Vectorial-magneto optical Kerr effect technique combined with variable temperature and full angular range all in a single setup. *Review of Scientific Instruments*, **2015**, 86, 046109	1.7	10
46	BSA-coated magnetic nanoparticles for improved therapeutic properties. *Journal of Materials Chemistry B*, **2015**, 3, 6239-6247	7.3	34
45	Influence of the aggregation, concentration, and viscosity on the nanomagnetism of iron oxide nanoparticle colloids for magnetic hyperthermia. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	42
44	Fundamentals and advances in magnetic hyperthermia. *Applied Physics Reviews*, **2015**, 2, 041302	17.3	469
43	Safety assessment of chronic oral exposure to iron oxide nanoparticles. *Nanotechnology*, **2015**, 26, 205101	3.4	36
42	A Single Picture Explains Diversity of Hyperthermia Response of Magnetic Nanoparticles. *Journal of Physical Chemistry C*, **2015**, 119, 15698-15706	3.8	115
41	Modulation of Magnetic Heating via Dipolar Magnetic Interactions in Monodisperse and Crystalline Iron Oxide Nanoparticles. *Journal of Physical Chemistry C*, **2014**, 118, 19985-19994	3.8	71
40	High therapeutic efficiency of magnetic hyperthermia in xenograft models achieved with moderate temperature dosages in the tumor area. *Pharmaceutical Research*, **2014**, 31, 3274-88	4.5	100
39	Preparation of glycopolymer-coated magnetite nanoparticles for hyperthermia treatment. *Journal of Polymer Science Part A*, **2012**, 50, 5087-5096	2.5	29
38	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. *Journal of Materials Chemistry*, **2012**, 22, 21065		126
37	Accurate determination of the specific absorption rate in superparamagnetic nanoparticles under non-adiabatic conditions. *Applied Physics Letters*, **2012**, 101, 062413	3.4	38
36	Tailoring magnetic anisotropy in epitaxial half metallic La0.7Sr0.3MnO3 thin films. *Journal of Applied Physics*, **2011**, 110, 013919	2.5	33
35	Substrate-induced magnetic anisotropy in La0.7Sr0.3MnO3epitaxial thin films grown onto (110) and (11 8) SrTiO3substrates. *Journal of Physics: Conference Series*, **2011**, 303, 012058	0.3	1
34	Role of anisotropy configuration in exchange-biased systems. *Journal of Applied Physics*, **2011**, 109, 07D739	2.5	21
33	Magnetization reversal in half metallic La0.7Sr0.3MnO3 films grown onto vicinal surfaces. *Journal of Applied Physics*, **2011**, 109, 07B107	2.5	12
32	Quantum Hall states under conditions of vanishing Zeeman energy. *Physical Review B*, **2010**, 82,	3.3	4

31	Enhancement of the spin gap in fully occupied two-dimensional Landau levels. *Physical Review B*, **2010**, 82,	3.3	7
30	pH responsive surfaces with nanoscale topography. *Journal of Polymer Science Part A*, **2010**, 48, 2982-2990	2.5	23
29	Highly asymmetric magnetic behavior in exchange biased systems induced by noncollinear field cooling. *Applied Physics Letters*, **2009**, 95, 122508	3.4	50
28	Investigation of interband optical transitions by near-resonant magneto-photoluminescence in InAs/GaAs quantum dots. *European Physical Journal B*, **2009**, 67, 51-56	1.2	5
27	Carrier injection effects on exciton dynamics in GaAs/AlAs resonant-tunneling diodes. *Europhysics Letters*, **2009**, 85, 67010	1.6	3
26	Dynamics of the localized spins interacting with two-dimensional electron gas: Coexistence of mixed and pure modes. *Physical Review B*, **2008**, 78,	3.3	19
25	Electron spin relaxation in very diluted CdMnTe quantum wells. *Superlattices and Microstructures*, **2008**, 43, 427-430	2.8	6
24	High-pressure and magneto-optical studies of Cr-related defects in the lithium-rich LiNbO3:Cr,Mg crystal. *Physical Review B*, **2007**, 76,	3.3	7
23	Evidence for excitonic polarons in InAs□GaAs quantum dots. *Physical Review B*, **2006**, 73,	3.3	36
22	Magneto-optical spectroscopy of (Ga,Mn)N epilayers. *Physical Review B*, **2006**, 74,	3.3	26
21	Optical properties of Cd1□MnxTe quantum wells across the Mott transition: An interband spectroscopy study. *Physical Review B*, **2006**, 73,	3.3	15
20	Evidence for excitonic polarons in InAs/GaAs quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 3881-3884		1
19	Trion formation in narrow GaAs quantum well structures. *Physical Review B*, **2005**, 71,	3.3	18
18	ELECTRONIC SPINS AND LOCALIZED MAGNETIC MOMENTS IN DILUTE MAGNETIC SEMICONDUCTOR QUANTUM WELLS. *International Journal of Modern Physics B*, **2004**, 18, 3727-3734	1.1	
17	Light-emitting diodes based on GaMnAs/GaAs heterostructures. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 21, 1002-1006	3	1
16	Coupling of Mn2+ spins with a 2DEG in quantum Hall regime. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 17, 335-341	3	12
15	Collective character of spin excitations in a system of Mn2+ spins coupled to a two-dimensional electron gas. *Physical Review Letters*, **2003**, 91, 077201	7.4	34
14	Investigation of radiative recombination from Mn-related states in Ga1□MnxAs. *Applied Physics Letters*, **2003**, 83, 866-868	3.4	5

13	Resistively detected EPR of Mn2+ ions coupled to the 2DEG in the quantum Hall regime. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 12, 356-360	3	3
12	Band-gap renormalization and photoluminescence from an interacting two-dimensional electron gas in a magnetic field. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 12, 495-498	3	6
11	Effective spin diffusion across hugely lattice mismatched heterointerfaces. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 547-551	3	2
10	Trions as a probe of spin injection through II□VI magnetic/non-magnetic heterointerface. *Thin Solid Films*, **2002**, 412, 30-33	2.2	1
9	Pauli paramagnetism and Landau level crossing in a modulation doped CdMnTe/CdMgTe quantum well. *Physical Review Letters*, **2002**, 88, 186803	7.4	29
8	Polarization of magnetopolaritons in a semiconductor microcavity. *Springer Proceedings in Physics*, **2001**, 671-672	0.2	
7	Magneto-optical transitions involving a 2DEG confined in Cd(Mn)Te/CdMgTe quantum wells. *Springer Proceedings in Physics*, **2001**, 723-724	0.2	
6	II□VI quantum structures with tunable electron -factor. *Journal of Crystal Growth*, **2000**, 214-215, 378-386	1.6	19
5	Two-dimensional electron gas coupled to Mn2+ ions: a magneto-optical study of CdMnTe/CdMgTe MDQWs. *Physica E: Low-Dimensional Systems and Nanostructures*, **2000**, 6, 775-778	3	
4	Magnetooptical Properties of Graded Quantum Well Structures Made of Diluted Magnetic Semiconductors **2000**, 237-246		1
3	g-factor dependence of the evolution of magneto-optical spectra with the density of quasi-two-dimensional electrons in Cd1□MnxTe/Cd1□MgyTe heterostructures. *Physical Review B*, **1999**, 59, R10437-R10440	3.3	50
2	Magneto-optics of a two-dimensional electron gas confined in Cd1□MnxTe quantum wells. *Physica B: Condensed Matter*, **1998**, 256-258, 577-581	2.8	12
1	Assessing the parameters modulating optical losses of iron oxide nanoparticles under near infrared irradiation. *Nanoscale Advances*,	5.1	4