

Francisco J Teran

List of Publications by Citations

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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	Fundamentals and advances in magnetic hyperthermia. <i>Applied Physics Reviews</i> , 2015 , 2, 041302	17.3	469
65	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21065		126
64	A Single Picture Explains Diversity of Hyperthermia Response of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15698-15706	3.8	115
63	High therapeutic efficiency of magnetic hyperthermia in xenograft models achieved with moderate temperature dosages in the tumor area. <i>Pharmaceutical Research</i> , 2014 , 31, 3274-88	4.5	100
62	Effects of inter- and intra-aggregate magnetic dipolar interactions on the magnetic heating efficiency of iron oxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10954-63	3.6	94
61	Dynamical Magnetic Response of Iron Oxide Nanoparticles Inside Live Cells. <i>ACS Nano</i> , 2018 , 12, 2741-2752	15.7	85
60	Modulation of Magnetic Heating via Dipolar Magnetic Interactions in Monodisperse and Crystalline Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19985-19994	3.8	71
59	Unraveling viscosity effects on the hysteresis losses of magnetic nanocubes. <i>Nanoscale</i> , 2017 , 9, 5094-5101	10.1	53
58	Highly asymmetric magnetic behavior in exchange biased systems induced by noncollinear field cooling. <i>Applied Physics Letters</i> , 2009 , 95, 122508	3.4	50
57	g-factor dependence of the evolution of magneto-optical spectra with the density of quasi-two-dimensional electrons in Cd _{1-x} MnxTe/Cd _{1-y} MgyTe heterostructures. <i>Physical Review B</i> , 1999 , 59, R10437-R10440	3.3	50
56	Functionalized magnetic nanowires for chemical and magneto-mechanical induction of cancer cell death. <i>Scientific Reports</i> , 2016 , 6, 35786	4.9	47
55	In Vivo Deep Tissue Fluorescence and Magnetic Imaging Employing Hybrid Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1406-14	9.5	47
54	Optomagnetic Nanoplatfoms for In Situ Controlled Hyperthermia. <i>Advanced Functional Materials</i> , 2018 , 28, 1704434	15.6	46
53	Influence of the aggregation, concentration, and viscosity on the nanomagnetism of iron oxide nanoparticle colloids for magnetic hyperthermia. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	42
52	Fe Deficiencies, FeO Subdomains, and Structural Defects Favor Magnetic Hyperthermia Performance of Iron Oxide Nanocubes into Intracellular Environment. <i>Nano Letters</i> , 2018 , 18, 6856-6866	11.5	40
51	Whither Magnetic Hyperthermia? A Tentative Roadmap. <i>Materials</i> , 2021 , 14,	3.5	39
50	Accurate determination of the specific absorption rate in superparamagnetic nanoparticles under non-adiabatic conditions. <i>Applied Physics Letters</i> , 2012 , 101, 062413	3.4	38

49	Nanoparticle-based hyperthermia distinctly impacts production of ROS, expression of Ki-67, TOP2A, and TPX2, and induction of apoptosis in pancreatic cancer. <i>International Journal of Nanomedicine</i> , 2017 , 12, 1009-1018	7.3	37
48	Safety assessment of chronic oral exposure to iron oxide nanoparticles. <i>Nanotechnology</i> , 2015 , 26, 2051014	7.4	36
47	Evidence for excitonic polarons in InAs/GaAs quantum dots. <i>Physical Review B</i> , 2006 , 73,	3.3	36
46	BSA-coated magnetic nanoparticles for improved therapeutic properties. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6239-6247	7.3	34
45	Collective character of spin excitations in a system of Mn ²⁺ spins coupled to a two-dimensional electron gas. <i>Physical Review Letters</i> , 2003 , 91, 077201	7.4	34
44	Tailoring magnetic anisotropy in epitaxial half metallic La _{0.7} Sr _{0.3} MnO ₃ thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 013919	2.5	33
43	Confining Iron Oxide Nanocubes inside Submicrometric Cavities as a Key Strategy To Preserve Magnetic Heat Losses in an Intracellular Environment. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41957-41971	9.5	31
42	Current Outlook and Perspectives on Nanoparticle-Mediated Magnetic Hyperthermia 2018 , 197-245		31
41	Preparation of glycopolymer-coated magnetite nanoparticles for hyperthermia treatment. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 5087-5096	2.5	29
40	Pauli paramagnetism and Landau level crossing in a modulation doped CdMnTe/CdMgTe quantum well. <i>Physical Review Letters</i> , 2002 , 88, 186803	7.4	29
39	Magneto-optical spectroscopy of (Ga,Mn)N epilayers. <i>Physical Review B</i> , 2006 , 74,	3.3	26
38	Esterase-Cleavable 2D Assemblies of Magnetic Iron Oxide Nanocubes: Exploiting Enzymatic Polymer Disassembling To Improve Magnetic Hyperthermia Heat Losses. <i>Chemistry of Materials</i> , 2019 , 31, 5450-5463	9.6	24
37	pH responsive surfaces with nanoscale topography. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2982-2990	2.5	23
36	Role of anisotropy configuration in exchange-biased systems. <i>Journal of Applied Physics</i> , 2011 , 109, 07D739	7.3	21
35	Iron-Based Core-Shell Nanowires for Combinatorial Drug Delivery and Photothermal and Magnetic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43976-43988	9.5	19
34	Dynamics of the localized spins interacting with two-dimensional electron gas: Coexistence of mixed and pure modes. <i>Physical Review B</i> , 2008 , 78,	3.3	19
33	II-VI quantum structures with tunable electron γ -factor. <i>Journal of Crystal Growth</i> , 2000 , 214-215, 378-386	1.6	19
32	Trion formation in narrow GaAs quantum well structures. <i>Physical Review B</i> , 2005 , 71,	3.3	18

31	Elucidation of the Physicochemical Properties Ruling the Colloidal Stability of Iron Oxide Nanoparticles under Physiological Conditions. <i>ChemNanoMat</i> , 2017 , 3, 183-189	3.5	15
30	Optical properties of Cd _{1-x} MnxTe quantum wells across the Mott transition: An interband spectroscopy study. <i>Physical Review B</i> , 2006 , 73,	3.3	15
29	Magnetization reversal in half metallic La _{0.7} Sr _{0.3} MnO ₃ films grown onto vicinal surfaces. <i>Journal of Applied Physics</i> , 2011 , 109, 07B107	2.5	12
28	Magneto-optics of a two-dimensional electron gas confined in Cd _{1-x} MnxTe quantum wells. <i>Physica B: Condensed Matter</i> , 1998 , 256-258, 577-581	2.8	12
27	Coupling of Mn ²⁺ spins with a 2DEG in quantum Hall regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 335-341	3	12
26	Infrared-Emitting Multimodal Nanostructures for Controlled In Vivo Magnetic Hyperthermia. <i>Advanced Materials</i> , 2021 , 33, e2100077	2.4	11
25	Note: Vectorial-magneto optical Kerr effect technique combined with variable temperature and full angular range all in a single setup. <i>Review of Scientific Instruments</i> , 2015 , 86, 046109	1.7	10
24	Emergence of the Stoner-Wohlfarth astroid in thin films at dynamic regime. <i>Scientific Reports</i> , 2017 , 7, 13474	4.9	7
23	Enhancement of the spin gap in fully occupied two-dimensional Landau levels. <i>Physical Review B</i> , 2010 , 82,	3.3	7
22	High-pressure and magneto-optical studies of Cr-related defects in the lithium-rich LiNbO ₃ :Cr,Mg crystal. <i>Physical Review B</i> , 2007 , 76,	3.3	7
21	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. <i>Nanoscale</i> , 2021 , 13, 14552-14571	7.7	7
20	Electron spin relaxation in very diluted CdMnTe quantum wells. <i>Superlattices and Microstructures</i> , 2008 , 43, 427-430	2.8	6
19	Band-gap renormalization and photoluminescence from an interacting two-dimensional electron gas in a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 495-498	3	6
18	Investigation of interband optical transitions by near-resonant magneto-photoluminescence in InAs/GaAs quantum dots. <i>European Physical Journal B</i> , 2009 , 67, 51-56	1.2	5
17	Investigation of radiative recombination from Mn-related states in Ga _{1-x} MnxAs. <i>Applied Physics Letters</i> , 2003 , 83, 866-868	3.4	5
16	Quantum Hall states under conditions of vanishing Zeeman energy. <i>Physical Review B</i> , 2010 , 82,	3.3	4
15	Di- and tri-component spinel ferrite nanocubes: synthesis and their comparative characterization for theranostic applications. <i>Nanoscale</i> , 2021 , 13, 13665-13680	7.7	4
14	Assessing the parameters modulating optical losses of iron oxide nanoparticles under near infrared irradiation. <i>Nanoscale Advances</i> ,	5.1	4

13	Instrumentation for Magnetic Hyperthermia 2019 , 111-138		3
12	Carrier injection effects on exciton dynamics in GaAs/AlAs resonant-tunneling diodes. <i>Europhysics Letters</i> , 2009 , 85, 67010	1.6	3
11	Resistively detected EPR of Mn ²⁺ ions coupled to the 2DEG in the quantum Hall regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 356-360	3	3
10	Effective spin diffusion across hugely lattice mismatched heterointerfaces. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 547-551	3	2
9	Substrate-induced magnetic anisotropy in La _{0.7} Sr _{0.3} MnO ₃ epitaxial thin films grown onto (110) and (11-8) SrTiO ₃ substrates. <i>Journal of Physics: Conference Series</i> , 2011 , 303, 012058	0.3	1
8	Evidence for excitonic polarons in InAs/GaAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3881-3884		1
7	Light-emitting diodes based on GaMnAs/GaAs heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 1002-1006	3	1
6	Trions as a probe of spin injection through III/V magnetic/non-magnetic heterointerface. <i>Thin Solid Films</i> , 2002 , 412, 30-33	2.2	1
5	Magneto-optical Properties of Graded Quantum Well Structures Made of Diluted Magnetic Semiconductors 2000 , 237-246		1
4	ELECTRONIC SPINS AND LOCALIZED MAGNETIC MOMENTS IN DILUTE MAGNETIC SEMICONDUCTOR QUANTUM WELLS. <i>International Journal of Modern Physics B</i> , 2004 , 18, 3727-3734	1.1	
3	Two-dimensional electron gas coupled to Mn ²⁺ ions: a magneto-optical study of CdMnTe/CdMgTe MDQWs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 6, 775-778	3	
2	Polarization of magnetopolaritons in a semiconductor microcavity. <i>Springer Proceedings in Physics</i> , 2001 , 671-672	0.2	
1	Magneto-optical transitions involving a 2DEG confined in Cd(Mn)Te/CdMgTe quantum wells. <i>Springer Proceedings in Physics</i> , 2001 , 723-724	0.2	