

# German Salazar-Alvarez

## List of Publications by Year in Descending Order

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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

6,047  
citations

38  
h-index

77  
g-index

113  
ext. papers

6,736  
ext. citations

8.2  
avg, IF

5.73  
L-index

#	Paper	IF	Citations
93	Electrodeposited PdNi on a Ni rotating disk electrode highly active for glycerol electrooxidation in alkaline conditions. <i>Electrochimica Acta</i> , <b>2022</b> , 403, 139714	6.7	2
92	Neither Sphere nor Cube Analyzing the Particle Shape Using Small-Angle Scattering and the Superball Model. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 23356-23363	3.8	3
91	Electrocatalytic Glycerol Oxidation with Concurrent Hydrogen Evolution Utilizing an Efficient MoO/Pt Catalyst. <i>Small</i> , <b>2021</b> , 17, e2104288	11	9
90	Giant exchange bias in micro-sized magnetic shape memory alloy particles. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 045001	3	3
89	Probing the meta-stability of oxide core/shell nanoparticle systems at atomic resolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126820	14.7	4
88	TEMPO-oxidized cellulose nanofibers as versatile additives for highly stable silicon anode in lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 369, 137708	6.7	4
87	Synthetic Pathway Determines the Nonequilibrium Crystallography of Li- and Mn-Rich Layered Oxide Cathode Materials. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1924-1935	6.1	5
86	Efficient Screening of BiMetallic Electrocatalysts for Glycerol Valorization. <i>Electrochimica Acta</i> , <b>2021</b> , 398, 139283	6.7	1
85	In-Situ Growth of Metal Oxide Nanoparticles on Cellulose Nanofibrils for Dye Removal and Antimicrobial Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7172-7181	5.6	33
84	SANS study of mixed cholesteric cellulose nanocrystal - gold nanorod suspensions. <i>Chemical Communications</i> , <b>2020</b> , 56, 13001-13004	5.8	6
83	Facile preparation of cellulose nanofiber derived carbon and reduced graphene oxide co-supported LiFePO <sub>4</sub> nanocomposite as enhanced cathode material for lithium-ion battery. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136707	6.7	12
82	Feasibility of Chemically Modified Cellulose Nanofiber Membranes as Lithium-Ion Battery Separators. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41211-41222	9.5	13
81	Hybrids based on borate-functionalized cellulose nanofibers and noble-metal nanoparticles as sustainable catalysts for environmental applications.. <i>RSC Advances</i> , <b>2020</b> , 10, 12460-12468	3.7	7
80	Anisotropic Diffusion and Phase Behavior of Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , <b>2019</b> , 35, 2289-2302	4	14
79	Assembly, Gelation, and Helicoidal Consolidation of Nanocellulose Dispersions. <i>Langmuir</i> , <b>2019</b> , 35, 3600-3606	3.6	15
78	Functionalization and patterning of nanocellulose films by surface-bound nanoparticles of hydrolyzable tannins and multivalent metal ions. <i>Nanoscale</i> , <b>2019</b> , 11, 19278-19284	7.7	10
77	Fabrication of Maghemite Nanoparticles with High Surface Area. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	5

76	One-Step Electro-Precipitation of Nanocellulose Hydrogels on Conducting Substrates and Its Possible Applications: Coatings, Composites, and Energy Devices. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19415-19425	8.3	6
75	Highly proton conductive membranes based on carboxylated cellulose nanofibres and their performance in proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25032-25039	13	19
74	Lithium Ion Battery Separators Based On Carboxylated Cellulose Nanofibers From Wood. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1241-1250	6.1	29
73	Production of functionalised chitins assisted by fungal lytic polysaccharide monooxygenase. <i>Green Chemistry</i> , <b>2018</b> , 20, 2091-2100	10	17
72	Experimental investigation of the flow and heat transfer of magnetic nanofluid in a vertical tube in the presence of magnetic quadrupole field. <i>Experimental Thermal and Fluid Science</i> , <b>2018</b> , 91, 155-165	3	30
71	Fully bio-based zwitterionic membranes with superior antifouling and antibacterial properties prepared via surface-initiated free-radical polymerization of poly(cysteine methacrylate). <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16361-16370	13	44
70	Inducing nematic ordering of cellulose nanofibers using osmotic dehydration. <i>Nanoscale</i> , <b>2018</b> , 10, 23157-23163	7.7	30
69	Assembly of cellulose nanocrystals in a levitating drop probed by time-resolved small angle X-ray scattering. <i>Nanoscale</i> , <b>2018</b> , 10, 18113-18118	7.7	19
68	A novel textile-like carbon wrapping for high-performance silicon anodes in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12475-12483	13	28
67	A CaCO <sub>3</sub> /nanocellulose-based bioinspired nacre-like material. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16128-16133	13	23
66	High-Performance Magnetic Activated Carbon from Solid Waste from Lignin Conversion Processes. 1. Their Use As Adsorbents for CO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 3087-3095	8.3	38
65	Superlattice growth and rearrangement during evaporation-induced nanoparticle self-assembly. <i>Scientific Reports</i> , <b>2017</b> , 7, 2802	4.9	57
64	Extensively interconnected silicon nanoparticles via carbon network derived from ultrathin cellulose nanofibers as high performance lithium ion battery anodes. <i>Carbon</i> , <b>2017</b> , 118, 8-17	10.4	51
63	Effects of Different Manufacturing Processes on TEMPO-Oxidized Carboxylated Cellulose Nanofiber Performance as Binder for Flexible Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37712-37720	9.5	12
62	Sustainable Organic/Inorganic Interfaces in Energy Applications <b>2017</b> , 199-240		
61	Tuning the structure and habit of iron oxide mesocrystals. <i>Nanoscale</i> , <b>2016</b> , 8, 15571-80	7.7	21
60	Following in Real Time the Two-Step Assembly of Nanoparticles into Mesocrystals in Levitating Drops. <i>Nano Letters</i> , <b>2016</b> , 16, 6838-6843	11.5	48
59	3D Visualization of the Iron Oxidation State in FeO/Fe <sub>3</sub> O <sub>4</sub> Core-Shell Nanocubes from Electron Energy Loss Tomography. <i>Nano Letters</i> , <b>2016</b> , 16, 5068-73	11.5	47

58	Tunable High-Field Magnetization in Strongly Exchange-Coupled Freestanding Co/CoO Core/Shell Coaxial Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22477-83	9.5	22
57	Fabrication of nanocellulose-hydroxyapatite composites and their application as water-resistant transparent coatings. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5858-5863	7.3	32
56	Rod Packing in Chiral Nematic Cellulose Nanocrystal Dispersions Studied by Small-Angle X-ray Scattering and Laser Diffraction. <i>Langmuir</i> , <b>2015</b> , 31, 6507-13	4	137
55	Mesocrystals in Biominerals and Colloidal Arrays. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 1391-402	24.3	129
54	Controlled molecular reorientation enables strong cellulose fibers regenerated from ionic liquid solutions. <i>Polymer</i> , <b>2015</b> , 75, 119-124	3.9	5
53	Thin Water Films at Multifaceted Hematite Particle Surfaces. <i>Langmuir</i> , <b>2015</b> , 31, 13127-37	4	21
52	Thermally insulating and fire-retardant lightweight anisotropic foams based on nanocellulose and graphene oxide. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 277-83	28.7	820
51	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. <i>Physics Reports</i> , <b>2015</b> , 553, 1-32	27.7	310
50	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe <sub>3</sub> O <sub>4</sub> nanoparticles as a case study. <i>Nanoscale</i> , <b>2015</b> , 7, 3002-15	7.7	63
49	Macroscopic control of helix orientation in films dried from cholesteric liquid-crystalline cellulose nanocrystal suspensions. <i>ChemPhysChem</i> , <b>2014</b> , 15, 1477-84	3.2	112
48	Carbon aerogels from bacterial nanocellulose as anodes for lithium ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 17549	3.7	105
47	Spin excitations in cubic maghemite nanoparticles studied by time-of-flight neutron spectroscopy. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	7
46	Dynamic growth modes of ordered arrays and mesocrystals during drop-casting of iron oxide nanocubes. <i>CrystEngComm</i> , <b>2014</b> , 16, 1443-1450	3.3	25
45	Oriented aggregation of lepidocrocite and impact on surface charge development. <i>Langmuir</i> , <b>2014</b> , 30, 9017-21	4	14
44	Atomic-Resolution Monitoring of Structural Phase Transition in Bi-magnetic Core/Shell Oxide Nanoparticles. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 106-107	0.5	
43	Probing planar defects in nanoparticle superlattices by 3D small-angle electron diffraction tomography and real space imaging. <i>Nanoscale</i> , <b>2014</b> , 6, 13803-8	7.7	11
42	Precise control over shape and size of iron oxide nanocrystals suitable for assembly into ordered particle arrays. <i>Science and Technology of Advanced Materials</i> , <b>2014</b> , 15, 055010	7.1	72
41	Anomalous magnetic properties of nanoparticles arising from defect structures: topotaxial oxidation of Fe(1-x)O Fe(3- $\delta$ )O <sub>4</sub> core shell nanocubes to single-phase particles. <i>ACS Nano</i> , <b>2013</b> , 7, 7132-44	16.7	133

40	Structural diversity in iron oxide nanoparticle assemblies as directed by particle morphology and orientation. <i>Nanoscale</i> , <b>2013</b> , 5, 3969-75	7.7	46
39	Correlating material-specific layers and magnetic distributions within onion-like Fe <sub>3</sub> O <sub>4</sub> /MnO/Mn <sub>2</sub> O <sub>3</sub> core/shell nanoparticles. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17B531	2.5	18
38	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , <b>2013</b> , 4, 2960	17.4	132
37	Resolving material-specific structures within FeO/MnO core/shell nanoparticles using anomalous small-angle X-ray scattering. <i>ACS Nano</i> , <b>2013</b> , 7, 921-31	16.7	35
36	Preparation of dry ultra-porous cellulosic fibres: characterization and possible initial uses. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 775-83	10.3	26
35	Functional hybrids based on biogenic nanofibrils and inorganic nanomaterials. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5469	13	52
34	2D to 3D crossover of the magnetic properties in ordered arrays of iron oxide nanocrystals. <i>Nanoscale</i> , <b>2013</b> , 5, 953-60	7.7	38
33	Dispersion and surface functionalization of oxide nanoparticles for transparent photocatalytic and UV-protecting coatings and sunscreens. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 023001	7.1	201
32	Distinguishing the core from the shell in MnO(x)/MnO(y) and FeO(x)/MnO(x) core/shell nanoparticles through quantitative electron energy loss spectroscopy (EELS) analysis. <i>Micron</i> , <b>2012</b> , 43, 30-6	2.3	33
31	High strength, flexible and transparent nanofibrillated cellulose-nanoclay biohybrid films with tunable oxygen and water vapor permeability. <i>Nanoscale</i> , <b>2012</b> , 4, 6622-8	7.7	188
30	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O <sub>4</sub> /Fe(x)Mn(3-x)O <sub>4</sub> , core/shell heterostructured nanoparticles. <i>Nanoscale</i> , <b>2012</b> , 4, 5138-47	7.7	66
29	Quantitative spatial magnetization distribution in iron oxide nanocubes and nanospheres by polarized small-angle neutron scattering. <i>New Journal of Physics</i> , <b>2012</b> , 14, 013025	2.9	85
28	Hard and transparent films formed by nanocellulose-TiO <sub>2</sub> nanoparticle hybrids. <i>PLoS ONE</i> , <b>2012</b> , 7, e45828	3.7	70
27	On the role of tannins and iron in the Bogolan or mud cloth dyeing process. <i>Textile Research Journal</i> , <b>2012</b> , 82, 1888-1896	1.7	7
26	Two-, three-, and four-component magnetic multilayer onion nanoparticles based on iron oxides and manganese oxides. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 16738-41	16.4	50
25	Hamaker constants of iron oxide nanoparticles. <i>Langmuir</i> , <b>2011</b> , 27, 8659-64	4	93
24	Shape induced symmetry in self-assembled mesocrystals of iron oxide nanocubes. <i>Nano Letters</i> , <b>2011</b> , 11, 1651-6	11.5	126
23	A transparent hybrid of nanocrystalline cellulose and amorphous calcium carbonate nanoparticles. <i>Nanoscale</i> , <b>2011</b> , 3, 3563-6	7.7	74

22	Making flexible magnetic aerogels and stiff magnetic nanopaper using cellulose nanofibrils as templates. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 584-8	28.7	684
21	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9398-407	16.4	100
20	Magnetic proximity effect features in antiferromagnetic/ferrimagnetic core-shell nanoparticles. <i>Physical Review Letters</i> , <b>2009</b> , 102, 247201	7.4	74
19	Direct evidence of imprinted vortex states in the antiferromagnet of exchange biased microdisks. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 012510	3.4	20
18	Cubic versus spherical magnetic nanoparticles: the role of surface anisotropy. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 13234-9	16.4	196
17	Mesoporous silica-magnetite nanocomposite synthesized by using a neutral surfactant. <i>Nanotechnology</i> , <b>2008</b> , 19, 185603	3.4	37
16	Tailoring the magnetization reversal of elliptical dots using exchange bias (invited). <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07C109	2.5	11
15	Bar-shaped nanoparticles of iron(II) hydroxide. <i>Journal of Nanoparticle Research</i> , <b>2008</b> , 10, 377-381	2.3	
14	Cold Consolidation of Metal/Ceramic Nanocomposite Powders with Large Ceramic Fractions. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3293-3298	15.6	27
13	Reversible post-synthesis tuning of the superparamagnetic blocking temperature of Fe <sub>2</sub> O <sub>3</sub> nanoparticles by adsorption and desorption of Co(II) ions. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 322-328		42
12	Enhanced Coercivity in Co-Rich Near-Stoichiometric Co <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> Nanoparticles Prepared in Large Batches. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4957-4963	9.6	38
11	Synthesis and size-dependent exchange bias in inverted core-shell MnO Mn <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9102-8	16.4	248
10	Synthesis and nonlinear light scattering of microemulsions and nanoparticle suspensions. <i>Journal of Nanoparticle Research</i> , <b>2007</b> , 9, 647-652	2.3	18
9	Fe <sub>3</sub> O <sub>4</sub> and gamma-Fe <sub>2</sub> O <sub>3</sub> nanoparticles for the adsorption of Co <sup>2+</sup> from aqueous solution. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 298, 501-7	9.3	114
8	Imprinting vortices into antiferromagnets. <i>Physical Review Letters</i> , <b>2006</b> , 97, 067201	7.4	43
7	Controlling magnetic vortices through exchange bias. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 042502	3.4	21
6	Novel flow injection synthesis of iron oxide nanoparticles with narrow size distribution. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 4625-4633	4.4	177
5	Controlled Synthesis of Near-Stoichiometric Cobalt Ferrite Nanoparticles. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5109-5118	9.6	85

4	Transport characterisation of a PIM system used for the extraction of Pb(II) using 2 as carrier. <i>Journal of Membrane Science</i> , <b>2005</b> , 250, 247-257	9.6	64
3	Synthesis, characterization and ESR measurements of CoNiO nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 1712-1718	1.3	20
2	Nanosession: Magnetic Interfaces and Surfaces 259-268		
1	Low-field-induced spin-glass behavior and controllable anisotropy in nanoparticle assemblies at a liquid-air interface. <i>Science China Materials</i> , 1	7.1	2