

Alberto Quintana

List of Publications by Year in descending order

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33
papers

617
citations

567144

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24
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35
all docs

35
docs citations

35
times ranked

668
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrolyte-gated magnetoelectric actuation: Phenomenology, materials, mechanisms, and prospective applications. <i>APL Materials</i> , 2019, 7, .	2.2	66
2	Voltage-Controlled ONâ€œOFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. <i>ACS Nano</i> , 2018, 12, 10291-10300.	7.3	57
3	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. <i>Nature Communications</i> , 2020, 11, 5871.	5.8	42
4	Voltageâ€œInduced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€œEfficient Magnetic Actuation. <i>Advanced Functional Materials</i> , 2017, 27, 1701904.	7.8	41
5	Reversible and magnetically unassisted voltage-driven switching of magnetization in FeRh/PMN-PT. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	37
6	Reversible writing/deleting of magnetic skyrmions through hydrogen adsorption/desorption. <i>Nature Communications</i> , 2022, 13, 1350.	5.8	30
7	Electric-Field-Adjustable Time-Dependent Magnetoelectric Response in Martensitic FeRh Alloy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15577-15582.	4.0	29
8	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. <i>Electrochimica Acta</i> , 2015, 173, 705-714.	2.6	27
9	Large Magnetoelectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44897-44905.	4.0	26
10	Reversible, Electric-Field Induced Magneto-Ionic Control of Magnetism in Mesoporous Cobalt Ferrite Thin Films. <i>Scientific Reports</i> , 2019, 9, 10804.	1.6	21
11	A facile co-precipitation synthesis of heterostructured ZrO ₂ ZnO nanoparticles as efficient photocatalysts for wastewater treatment. <i>Journal of Materials Science</i> , 2017, 52, 13779-13789.	1.7	18
12	Boosting Roomâ€œTemperature Magnetoâ€œIonics in a Nonâ€œMagnetic Oxide Semiconductor. <i>Advanced Functional Materials</i> , 2020, 30, 2003704.	7.8	18
13	Bendable Polycrystalline and Magnetic CoFe ₂ O ₄ Membranes by Chemical Methods. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12845-12854.	4.0	17
14	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. <i>Materials and Design</i> , 2017, 133, 54-61.	3.3	16
15	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltageâ€œDriven Elementâ€œSelective Redox Processes. <i>Small</i> , 2018, 14, e1704396.	5.2	16
16	Electrically Enhanced Exchange Bias via Solid-State Magneto-ionics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38916-38922.	4.0	16
17	Efficient and Robust Metallic Nanowire Foams for Deep Submicrometer Particulate Filtration. <i>Nano Letters</i> , 2021, 21, 2968-2974.	4.5	15
18	Electrodeposited Ni-Based Magnetic Mesoporous Films as Smart Surfaces for Atomic Layer Deposition: An â€œAll-Chemicalâ€œ-Deposition Approach toward 3D Nanoengineered Composite Layers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14877-14885.	4.0	13

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19	Magneto-ionics in Single-Layer Transition Metal Nitrides. ACS Applied Materials & Interfaces, 2021, 13, 30826-30834.	4.0	13
20	Voltage control of magnetism with magneto-ionic approaches: Beyond voltage-driven oxygen ion migration. Applied Physics Letters, 2022, 120, .	1.5	13
21	Unraveling the Origin of Magnetism in Mesoporous Cu-Doped SnO ₂ Magnetic Semiconductors. Nanomaterials, 2017, 7, 348.	1.9	12
22	Enhancing Magneto-Ionic Effects in Magnetic Nanostructured Films via Conformal Deposition of Nanolayers with Oxygen Acceptor/Donor Capabilities. ACS Applied Materials & Interfaces, 2020, 12, 14484-14494.	4.0	12
23	Local manipulation of metamagnetism by strain nanopatterning. Materials Horizons, 2020, 7, 2056-2062.	6.4	11
24	Systematic Characterization of Hydrophilized Polydimethylsiloxane. Journal of Microelectromechanical Systems, 2020, 29, 1216-1224.	1.7	10
25	Large magnetoelectric effects mediated by electric-field-driven nanoscale phase transformations in sputtered (nanoparticulate) and electrochemically dealloyed (nanoporous) Fe ²⁺ /Cu films. Nanoscale, 2018, 10, 14570-14578.	2.8	8
26	Structural and Magnetic Properties of Fe _x /Cu _{1-x} Sputtered Thin Films Electrochemically Treated To Create Nanoporosity for High-Surface-Area Magnetic Components. ACS Applied Nano Materials, 2018, 1, 1675-1682.	2.4	7
27	Critical Role of Electrical Resistivity in Magnetoionics. Physical Review Applied, 2021, 16, .	1.5	6
28	Ion irradiation and implantation modifications of magneto-ionically induced exchange bias in Gd/NiCoO. Journal of Magnetism and Magnetic Materials, 2021, 540, 168479.	1.0	6
29	The Accessibility of the Cell Wall in Scots Pine (Pinus sylvestris L.) Sapwood to Colloidal Fe ₃ O ₄ Nanoparticles. ACS Omega, 2021, 6, 21719-21729.	1.6	4
30	Magnetic structure and internal field nuclear magnetic resonance of cobalt nanowires. Physical Chemistry Chemical Physics, 2022, 24, 11898-11909.	1.3	4
31	Disentangling Highly Asymmetric Magnetoelectric Effects in Engineered Multiferroic Heterostructures. Physical Review Applied, 2019, 12, .	1.5	3
32	Voltage-driven strain-mediated modulation of exchange bias in Ir ₂₀ Mn ₈₀ /Fe ₈₀ Ga ₂₀ /TaO ₁₁ -oriented PMN-32P ₆₇ heterostructures. Applied Physics Letters, 2022, 120, 142406.		2
33	Magnetic Actuation: Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation (Adv. Funct. Mater. 32/2017). Advanced Functional Materials, 2017, 27, .	7.8	1