Alberto Quintana

List of Publications by Year
in descending order

33	617	567281 15	610901 24
papers	citations	h-index	g-index

35	35	35	668
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrolyte-gated magnetoelectric actuation: Phenomenology, materials, mechanisms, and prospective applications. APL Materials, 2019, 7, .	5.1	66
2	Voltage-Controlled ONâ€“OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. ACS Nano, 2018, 12, 10291-10300.	14.6	57
3	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. Nature Communications, 2020, 11, 5871.	12.8	42
4	Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	14.9	41
5	Reversible and magnetically unassisted voltage-driven switching of magnetization in FeRh/PMN-PT. Applied Physics Letters, 2018, 113, .	3.3	37
6	Reversible writing/deleting of magnetic skyrmions through hydrogen adsorption/desorption. Nature Communications, 2022, 13, 1350.	12.8	30
7	Electric-Field-Adjustable Time-Dependent Magnetoelectric Response in Martensitic FeRh Alloy. ACS Applied Materials & Interfaces, 2017, 9, 15577-15582.	8.0	29
8	Structurally and mechanically tunable molybdenum oxide films and patterned submicrometer structures by electrodeposition. Electrochimica Acta, 2015, 173, 705-714.	5.2	27
9	Large Magnetoelectric Effects in Electrodeposited Nanoporous Microdisks Driven by Effective Surface Charging and Magneto-Ionics. ACS Applied Materials & Interfaces, 2018, 10, 44897-44905.	8.0	26
10	Reversible, Electric-Field Induced Magneto-Ionic Control of Magnetism in Mesoporous Cobalt Ferrite Thin Films. Scientific Reports, 2019, 9, 10804.	3.3	21
11	A facile co-precipitation synthesis of heterostructured ZrO2 | ZnO nanoparticles as efficient photocatalysts for wastewater treatment. Journal of Materials Science, 2017, 52, 13779-13789.	3.7	18
12	Boosting Roomâ€Temperature Magnetoâ€Ionics in a Nonâ€Magnetic Oxide Semiconductor. Advanced Functional Materials, 2020, 30, 2003704.	14.9	18
13	Bendable Polycrystalline and Magnetic CoFe₂O₄ Membranes by Chemical Methods. ACS Applied Materials & Interfaces, 2022, 14, 12845-12854.	8.0	17
14	Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse. Materials and Design, 2017, 133, 54-61.	7.0	16
15	Tunable Magnetism in Nanoporous CuNi Alloys by Reversible Voltageâ€Driven Elementâ€Selective Redox Processes. Small, 2018, 14, e1704396.	10.0	16
16	Electrically Enhanced Exchange Bias via Solid-State Magneto-ionics. ACS Applied Materials & Interfaces, 2021, 13, 38916-38922.	8.0	16
17	Efficient and Robust Metallic Nanowire Foams for Deep Submicrometer Particulate Filtration. Nano Letters, 2021, 21, 2968-2974.	9.1	15
18	Electrodeposited Ni-Based Magnetic Mesoporous Films as Smart Surfaces for Atomic Layer Deposition: An â€œAll-Chemicalâ€•Deposition Approach toward 3D Nanoengineered Composite Layers. ACS Applied Materials & Interfaces, 2018, 10, 14877-14885.	8.0	13

#	Article	IF	Citations
19	Magneto-Ionics in Single-Layer Transition Metal Nitrides. ACS Applied Materials & Interfaces, 2021, 13, 30826-30834.	8.0	13
20	Voltage control of magnetism with magneto-ionic approaches: Beyond voltage-driven oxygen ion migration. Applied Physics Letters, 2022, 120, .	3.3	13
21	Unraveling the Origin of Magnetism in Mesoporous Cu-Doped SnO2 Magnetic Semiconductors. Nanomaterials, 2017, 7, 348.	4.1	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.	8.0	12
23	Local manipulation of metamagnetism by strain nanopatterning. Materials Horizons, 2020, 7, 2056-2062.	12.2	11
24	Systematic Characterization of Hydrophilized Polydimethylsiloxane. Journal of Microelectromechanical Systems, 2020, 29, 1216-1224.	2.5	10
25	Large magnetoelectric effects mediated by electric-field-driven nanoscale phase transformations in sputtered (nanoparticulate) and electrochemically dealloyed (nanoporous) Feâ€“Cu films. Nanoscale, 2018, 10, 14570-14578.	5.6	8
26	Structural and Magnetic Properties of Fe_xCu_{1â€“x} Sputtered Thin Films Electrochemically Treated To Create Nanoporosity for High-Surface-Area Magnetic Components. ACS Applied Nano Materials, 2018, 1, 1675-1682.	5.0	7
27	Critical Role of Electrical Resistivity in Magnetoionics. Physical Review Applied, 2021, 16, .	3.8	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.	2.3	6
29	The Accessibility of the Cell Wall in Scots Pine (Pinus sylvestris L.) Sapwood to Colloidal Fe3O4 Nanoparticles. ACS Omega, 2021, 6, 21719-21729.	3.5	4
30	Magnetic structure and internal field nuclear magnetic resonance of cobalt nanowires. Physical Chemistry Chemical Physics, 2022, 24, 11898-11909.	2.8	4
31	Disentangling Highly Asymmetric Magnetoelectric Effects in Engineered Multiferroic Heterostructures. Physical Review Applied, 2019, 12, .	3.8	3
32	Voltage-driven strain-mediated modulation of exchange bias in Ir₂₀Mn₈₀/Fe₈₀Ga₂₀/Ta/âŸ¨011âŸ©-oriented PMN-32PT heterostructures. Applied Physics Letters, 2022, 120, 142406.	3.3	2
33	Magnetic Actuation: Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation (Adv. Funct. Mater. 32/2017). Advanced Functional Materials, 2017, 27, .	14.9	1