Adolfo del Campo

List of Publications by Year
in descending order

71 papers	2,368 citations	236925 25 h-index	223800 46 g-index
71 all docs	71 docs citations	71 times ranked	3186 citing authors

#	Article	IF	Citations
1	Quantum Speed Limits in Open System Dynamics. Physical Review Letters, 2013, 110, 050403.	7.8	356
2	Ferroelectric domain wall motion induced by polarized light. Nature Communications, 2015, 6, 6594.	12.8	138
3	Lead-Free Piezoceramics: Revealing the Role of the Rhombohedralâ€“Tetragonal Phase Coexistence in Enhancement of the Piezoelectric Properties. ACS Applied Materials & Interfaces, 2015, 7, 23080-23088.	8.0	122
4	Solâ€“Gel Synthesis and Micro-Raman Characterization of Îµ-Fe₂O₃ Micro- and Nanoparticles. Chemistry of Materials, 2016, 28, 511-518.	6.7	115
5	High spatial resolution structure of (K,Na)NbO3 lead-free ferroelectric domains. Journal of Materials Chemistry, 2012, 22, 9714.	6.7	97
6	Reversible optical control of macroscopic polarization in ferroelectrics. Nature Photonics, 2018, 12, 29-32.	31.4	97
7	Enhancement of UV absorption behavior in ZnOâ€“TiO2 composites. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2016, 55, 55-62.	1.9	84
8	High Strain in (K,Na)NbO₃-Based Lead-Free Piezoelectric Fibers. Chemistry of Materials, 2014, 26, 3838-3848.	6.7	79
9	Synthesis and structural characterization of Zn_xFe_{3â^'x}O₄ ferrite nanoparticles obtained by an electrochemical method. RSC Advances, 2016, 6, 40067-40076.	3.6	62
10	2D particles forming a nanostructured shell: A step forward cool NIR reflectivity for CoAl2O4 pigments. Dyes and Pigments, 2017, 137, 1-11.	3.7	62
11	Dielectric behaviour of Hf-doped CaCu3Ti4O12 ceramics obtained by conventional synthesis and reactive sintering. Journal of the European Ceramic Society, 2012, 32, 1691-1699.	5.7	46
12	Hierarchically Structured Multifunctional Porous Interfaces through Water Templated Self-Assembly of Ternary Systems. Langmuir, 2012, 28, 9778-9787.	3.5	44
13	Epsilon iron oxide: Origin of the high coercivity stable low <scp>C</scp>urie temperature magnetic phase found in heated archeological materials. Geochemistry, Geophysics, Geosystems, 2017, 18, 2646-2656.	2.5	43
14	Investigation of thermal stability of 2D and 3D CoAl2O4 particles in core-shell nanostructures by Raman spectroscopy. Journal of Alloys and Compounds, 2019, 779, 244-254.	5.5	41
15	New insights in weathering analysis of anhydrous cements by using high spectral and spatial resolution Confocal Raman Microscopy. Cement and Concrete Research, 2017, 100, 119-128.	11.0	39
16	Fabrication of Structured Porous Films by Breath Figures and Phase Separation Processes: Tuning the Chemistry and Morphology Inside the Pores Using Click Chemistry. ACS Applied Materials & Interfaces, 2013, 5, 3943-3951.	8.0	37
17	Revealing the role of cationic displacement in potassiumâ€“sodium niobate lead-free piezoceramics by adding W⁶⁺ ions. Journal of Materials Chemistry C, 2015, 3, 4168-4178.	5.5	36
18	Block Copolymer Surfactants in Emulsion Polymerization: Influence of the Miscibility of the Hydrophobic Block on Kinetics, Particle Morphology, and Film Formation. Macromolecules, 2011, 44, 4282-4290.	4.8	35

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19	Thermoelectric Skutterudite/oxide nanocomposites: Effective decoupling of electrical and thermal conductivity by functional interfaces. Nano Energy, 2017, 31, 393-402.	16.0	34
20	Lithium La_{0.57}Li_{0.33}TiO₃Perovskite and Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃Li-NASICON Supported Thick Films Electrolytes Prepared by Tape Casting Method. Journal of the Electrochemical Society, 2016, 163, A1653-A1659.	2.9	30
21	Highly Efficient Antibacterial Surfaces Based on Bacterial/Cell Size Selective Microporous Supports. ACS Applied Materials & Interfaces, 2017, 9, 44270-44280.	8.0	29
22	Experimental evidence of charged domain walls in lead-free ferroelectric ceramics: light-driven nanodomain switching. Nanoscale, 2018, 10, 705-715.	5.6	29
23	Light-Induced Capacitance Tunability in Ferroelectric Crystals. ACS Applied Materials & Interfaces, 2018, 10, 21804-21807.	8.0	28
24	In situ full view of the Portland cement hydration by confocal Raman microscopy. Journal of Raman Spectroscopy, 2019, 50, 720-730.	2.5	28
25	Ultrasensitive NO2 gas sensor with insignificant NH3-interference based on a few-layered mesoporous graphene. Sensors and Actuators B: Chemical, 2021, 335, 129657.	7.8	27
26	Resolution of the ferroelectric domains structure in (K,Na)NbO3-based lead-free ceramics by confocal Raman microscopy. Journal of Applied Physics, 2013, 113, .	2.5	25
27	Electric field effect on the microstructure and properties of Ba_{0.9}Ca_{0.1}Ti_{0.9}Zr_{0.1}O₃ (BCTZ) lead-free ceramics. Journal of Materials Chemistry A, 2018, 6, 5419-5429.	10.3	24
28	Inorganic hydrophobic coatings: Surfaces mimicking the nature. Ceramics International, 2013, 39, 2489-2495.	4.8	23
29	Indirect measurement of stress distribution in quartz particles embedded in a glass matrix by using confocal Raman microscopy. Ceramics International, 2015, 41, 13598-13606.	4.8	23
30	Photo-Controlled Ferroelectric-Based Nanoactuators. ACS Applied Materials & Interfaces, 2019, 11, 13921-13926.	8.0	23
31	Isolated NAnoparticle Raman Spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 889-894.	2.5	22
32	Exploring new methodologies for the identification of the morphotropic phase boundary region in the (BiNa)TiO3-BaTiO3 lead free piezoceramics: Confocal Raman Microscopy. Journal of Alloys and Compounds, 2018, 739, 799-805.	5.5	22
33	Poly(Ethylene Oxide) Functionalized Polyimide-Based Microporous Films to Prevent Bacterial Adhesion. ACS Applied Materials & Interfaces, 2015, 7, 9716-9724.	8.0	21
34	Modification of poly(dimethylsiloxane) as a basis for surface wrinkle formation: Chemical and mechanical characterization. Polymer, 2016, 98, 327-335.	3.8	20
35	Sintering behaviour and translucency of dense Eu2O3 ceramics. Journal of the European Ceramic Society, 2014, 34, 1803-1808.	5.7	19
36	Formation of Multigradient Porous Surfaces for Selective Bacterial Entrapment. Biomacromolecules, 2014, 15, 3338-3348.	5.4	19

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37	A simple aqueous electrochemical method to synthesize TiO₂ nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 29319-29326.	2.8	18
38	Improved conductivity in tape casted Li-NASICON supported thick films: Effect of temperature treatments and lamination. Journal of the European Ceramic Society, 2018, 38, 1679-1687.	5.7	18
39	Thermal Route for the Synthesis of Maghemite/Hematite Core/Shell Nanowires. Journal of Physical Chemistry C, 2017, 121, 23158-23165.	3.1	17
40	Fabrication of biocompatible and efficient antimicrobial porous polymer surfaces by the Breath Figures approach. Journal of Colloid and Interface Science, 2018, 513, 820-830.	9.4	17
41	The fight against multidrug-resistant organisms: The role of ZnO crystalline defects. Materials Science and Engineering C, 2019, 99, 575-581.	7.3	17
42	Influence of B-site compositional homogeneity on properties of (K0.44Na0.52Li0.04)(Nb0.86Ta0.10Sb0.04)O3-based piezoelectric ceramics. Journal of the European Ceramic Society, 2014, 34, 2249-2257.	5.7	16
43	Characterization of Carbon Nanoparticles in Thin-Film Nanocomposites by Confocal Raman Microscopy. Journal of Physical Chemistry C, 2014, 118, 10488-10494.	3.1	16
44	Switchable and pH responsive porous surfaces based on polypeptide-based block copolymers. Materials and Design, 2017, 131, 121-126.	7.0	16
45	Ag-AgO nanostructures on glass substrates by solid-state dewetting: From extended to localized surface plasmons. Journal of Applied Physics, 2018, 124, .	2.5	16
46	Poling and depoling influence on the micro-stress states and phase coexistence in KNN-based piezoelectric ceramics. Journal of the European Ceramic Society, 2019, 39, 1011-1019.	5.7	15
47	Photocontrolled Strain in Polycrystalline Ferroelectrics via Domain Engineering Strategy. ACS Applied Materials & Interfaces, 2021, 13, 20858-20864.	8.0	15
48	Tribochemical Decomposition of Light Ionic Hydrides at Room Temperature. Journal of Physical Chemistry Letters, 2015, 6, 2780-2785.	4.6	14
49	Wrinkling and Folding on Patched Elastic Surfaces: Modulation of the Chemistry and Pattern Size of Microwrinkled Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 20188-20195.	8.0	14
50	Chemical Analysis with High Spatial Resolution by Rutherford Backscattering and Raman Confocal Spectroscopies: Surface Hierarchically Structured Glasses. Journal of the American Ceramic Society, 2013, 96, 1783-1788.	3.8	13
51	Tuning the Pore Composition by Two Simultaneous Interfacial Self-Assembly Processes: Breath Figures and Coffee Stain. Langmuir, 2014, 30, 6134-6141.	3.5	13
52	Fabrication of 3D printed objects with controlled surface chemistry and topography. European Polymer Journal, 2018, 98, 21-27.	5.4	13
53	Wear behavior in pastes of alkali-activated materials: Influence of precursor and alkali solution. Tribology International, 2020, 147, 106293.	5.9	13
54	Origin of the magnetic transition at 100â€‰K inÎµ-Fe₂O₃nanoparticles studied by x-ray absorption fine structure spectroscopy. Journal of Physics Condensed Matter, 2017, 29, 485701.	1.8	13

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55	Stabilization of cubic phase in dense Eu2O3 ceramics. Materials Letters, 2015, 157, 77-80.	2.6	12
56	Symmetry constraints during the development of anisotropic spinodal patterns. Scientific Reports, 2016, 6, 20806.	3.3	12
57	Ordered arrays of polymeric nanopores by using inverse nanostructured PTFE surfaces. Nanotechnology, 2012, 23, 385305.	2.6	10
58	Versatile Approach for the Fabrication of Functional Wrinkled Polymer Surfaces. Langmuir, 2014, 30, 13244-13254.	3.5	10
59	Fabrication of hierarchical wrinkled morphologies through sequential <scp>UVO</scp> treatments. Journal of Applied Polymer Science, 2015, 132, .	2.6	10
60	Nanopatterning on highly oriented pyrolytic graphite surfaces promoted by cobalt oxides. Carbon, 2015, 85, 89-98.	10.3	8
61	Structural insights of hierarchically engineered feldspars by confocal Raman microscopy. Journal of Raman Spectroscopy, 2019, 50, 741-754.	2.5	8
62	Influence of surface modifiers on hydrothermal synthesis of K x Na(1â^'x)NbO3. Journal of Materials Science: Materials in Electronics, 2015, 26, 9402-9408.	2.2	6
63	Immobilization of Polyoxometalates on Tailored Polymeric Surfaces. Nanomaterials, 2018, 8, 142.	4.1	6
64	Preparation and Characterization of Large Area Li-NASICON Electrolyte Thick Films. Inorganics, 2019, 7, 107.	2.7	6
65	Preparation of nanostructured TiO2 films with high catalytic activity and their 3D spatial distribution of anatase and rutile phases. Journal of Materials Science, 2019, 54, 9414-9425.	3.7	6
66	Study of the Interface of the Early Stages of Growth under Quasiâ€Equilibrium Conditions of ZnO on Graphene/Cu and Graphite. Advanced Materials Interfaces, 2019, 6, 1801689.	3.7	6
67	Honeycomb Films with Coreâ€“Shell Dispersed Phases Prepared by the Combination of Breath Figures and Phase Separation Process of Ternary Blends. Langmuir, 2017, 33, 2872-2877.	3.5	4
68	Large Two-Magnon Raman Hysteresis Observed in a Magnetically Uncompensated Hematite Coating across the Morin Transition. Coatings, 2022, 12, 540.	2.6	4
69	Confocal Raman Microscopy Can Make a Large Difference: Resolving and Manipulating Ferroelectric Domains forÂPiezoelectric Engineering. Springer Series in Surface Sciences, 2018, , 531-556.	0.3	3
70	2D compositional self-patterning in magnetron sputtered thin films. Applied Surface Science, 2019, 480, 115-121.	6.1	3
71	Confocal Raman Microscopy: new perspective on the weathering of anhydrous cement. IOP Conference Series: Materials Science and Engineering, 2017, 251, 012035.	0.6	1