Alberto Escudero

List of Publications by Year in descending order

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52	2,720	279798	182427
papers	citations	23 h-index	51 g-index

54	54	54	5384
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
2	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. Chemistry of Materials, 2017, 29, 399-461.	6.7	233
3	Positioning metal-organic framework nanoparticles within the context of drug delivery â€“ A comparison with mesoporous silica nanoparticles and dendrimers. Biomaterials, 2017, 123, 172-183.	11.4	221
4	Rare earth based nanostructured materials: synthesis, functionalization, properties and bioimaging and biosensing applications. Nanophotonics, 2017, 6, 881-921.	6.0	137
5	Microwave-Assisted Synthesis of Biocompatible Europium-Doped Calcium Hydroxyapatite and Fluoroapatite Luminescent Nanospindles Functionalized with Poly(acrylic acid). Langmuir, 2013, 29, 1985-1994.	3.5	94
6	Photodynamic therapy: photosensitizers and nanostructures. Materials Chemistry Frontiers, 2021, 5, 3788-3812.	5.9	92
7	Synthesis and functionalization of monodisperse near-ultraviolet and visible excitable multifunctional Eu³⁺, Bi³⁺:REVO₄nanophosphors for bioimaging and biosensing applications. Nanoscale, 2016, 8, 12221-12236.	5.6	56
8	Gold-Based Nanomaterials for Applications in Nanomedicine. Topics in Current Chemistry, 2016, 370, 169-202.	4.0	56
9	Revisiting Y2Si2O7 and Y2SiO5 polymorphic structures by 89Y MAS-NMR spectroscopy. Journal of Solid State Chemistry, 2004, 177, 2783-2789.	2.9	50
10	Luminescent Rare-earth-based Nanoparticles: A Summarized Overview of their Synthesis, Functionalization, and Applications. Topics in Current Chemistry, 2016, 374, 48.	5.8	47
11	Confining Iron Oxide Nanocubes inside Submicrometric Cavities as a Key Strategy To Preserve Magnetic Heat Losses in an Intracellular Environment. ACS Applied Materials & Interfaces, 2019, 11, 41957-41971.	8.0	44
12	Synthesis and luminescence of uniform europium-doped bismuth fluoride and bismuth oxyfluoride particles with different morphologies. CrystEngComm, 2014, 16, 3274.	2.6	41
13	Comprehensive and Systematic Analysis of the Immunocompatibility of Polyelectrolyte Capsules. Bioconjugate Chemistry, 2017, 28, 556-564.	3.6	39
14	Solid solubility of Yb2Si2O7 in Î²-, Î³- and Î´-Y2Si2O7. Journal of Solid State Chemistry, 2011, 184, 1882-1889.	2.9	38
15	Quantitative uptake of colloidal particles by cell cultures. Science of the Total Environment, 2016, 568, 819-828.	8.0	35
16	Laterally and Temporally Controlled Intracellular Staining by Lightâ€Triggered Release of Encapsulated Fluorescent Markers. Chemistry - A European Journal, 2018, 24, 2098-2102.	3.3	35
17	Revision of the crystallographic data of polymorphic Y2Si2O7and Y2SiO5compounds. Phase Transitions, 2004, 77, 1093-1102.	1.3	33
18	Photoluminescence quenching of dye molecules near a resonant silicon nanoparticle. Scientific Reports, 2018, 8, 6107.	3.3	32

#	Article	IF	Citations
19	The hydrothermal conversion of kaolinite to kalsilite: Influence of time, temperature, and pH. American Mineralogist, 2009, 94, 1672-1678.	1.9	29
20	Solventâ€Controlled Synthesis and Luminescence Properties of Uniform Eu:YVO₄ Nanophosphors with Different Morphologies. European Journal of Inorganic Chemistry, 2013, 2013, 1301-1309.	2.0	27
21	Polymorphism in the Sc2Si2O7â€“Y2Si2O7 system. Journal of Solid State Chemistry, 2007, 180, 1436-1445.	2.9	26
22	Europium-doped NaGd(WO₄)₂ nanophosphors: synthesis, luminescence and their coating with fluorescein for pH sensing. Dalton Transactions, 2017, 46, 11575-11583.	3.3	26
23	Application of ²⁹Si and ²⁷Al MAS NMR Spectroscopy to the Study of the Reaction Mechanism of Kaolinite to Illite/Muscovite. Clays and Clay Minerals, 2009, 57, 302-310.	1.3	24
24	XRD and 29Si MAS-NMR spectroscopy across the Î²-Lu2Si2O7â€“Î²-Y2Si2O7 solid solution. Journal of Solid State Chemistry, 2005, 178, 1-7.	2.9	22
25	Structural study of the Lu2Si2O7â€“Sc2Si2O7 system. Journal of Physics and Chemistry of Solids, 2007, 68, 464-469.	4.0	22
26	Stability of phyllosilicates in Ca(OH)2 solution: Influence of layer nature, octahedral occupation, presence of tetrahedral Al and degree of crystallinity. Applied Geochemistry, 2009, 24, 1251-1260.	3.0	20
27	Aluminum Incorporation in TiO₂ Rutile at High Pressure: An XRD and High-Resolution ²⁷Al NMR Study. Journal of Physical Chemistry C, 2011, 115, 12196-12201.	3.1	18
28	Mineralogical stability of phyllosilicates in hyperalkaline fluids: Influence of layer nature, octahedral occupation and presence of tetrahedral Al. American Mineralogist, 2009, 94, 1187-1197.	1.9	17
29	Hydrothermal Synthesis of Kalsilite: A Simple and Economical Method. Journal of the American Ceramic Society, 2009, 92, 2204-2206.	3.8	17
30	Phase Transitions in Lu-Doped Y2Si2O7at High Temperatures. Chemistry of Materials, 2005, 17, 112-117.	6.7	16
31	Polymorphism in the Lu2â^'xYxSi2O7 system at high temperatures. Journal of the European Ceramic Society, 2006, 26, 2293-2299.	5.7	16
32	Biodegradation of Bi-Labeled Polymer-Coated Rare-Earth Nanoparticles in Adherent Cell Cultures. Chemistry of Materials, 2020, 32, 245-254.	6.7	16
33	Structural elucidation of Î²-(Y,Sc)₂Si₂O₇: combined use of⁸⁹Y MAS NMR and powder diffraction. Journal of Applied Crystallography, 2011, 44, 846-852.	4.5	15
34	Aluminum solubility in TiO2 rutile at high pressure and experimental evidence for a CaCl2-structured polymorph. American Mineralogist, 2012, 97, 1075-1082.	1.9	15
35	Molecular Bottom-Up Approaches for the Synthesis of Inorganic and Hybrid Nanostructures. Inorganics, 2021, 9, 58.	2.7	15
36	Chromium incorporation into TiO2 at high pressure. Journal of Solid State Chemistry, 2012, 190, 61-67.	2.9	14

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37	Structural and kinetic study of phase transitions in LaYSi2O7. Journal of the European Ceramic Society, 2012, 32, 2477-2486.	5.7	14
38	Optical sensing by integration of analyte-sensitive fluorophore to particles. TrAC - Trends in Analytical Chemistry, 2016, 84, 84-96.	11.4	11
39	Reversible Conductive Inkjet Printing of Healable and Recyclable Electrodes on Cardboard and Paper. Small, 2020, 16, e2000928.	10.0	11
40	Stability of the low temperature polymorphs (y and) of Lu-doped Y2Si2O7. Journal of Physics and Chemistry of Solids, 2007, 68, 1348-1353.	4.0	10
41	Effect of pressure on kaolinite illitization. Applied Clay Science, 2010, 50, 342-347.	5.2	10
42	Incorporation of Si into TiO2 phases at high pressure. American Mineralogist, 2012, 97, 524-531.	1.9	9
43	Microstructure, composition and Pâ€“T conditions of rutile from diamondiferous gneiss of the Saxonian Erzgebirge, Germany. Chemie Der Erde, 2012, 72, 25-30.	2.0	9
44	Large-Scale Synthesis of Hybrid Conductive Polymerâ€“Gold Nanoparticles Using â€œSacrificialâ€•Weakly Binding Ligands for Printing Electronics. Inorganic Chemistry, 2021, 60, 17103-17113.	4.0	8
45	Development of Silica-Based Biodegradable Submicrometric Carriers and Investigating Their Characteristics as in Vitro Delivery Vehicles. International Journal of Molecular Sciences, 2020, 21, 7563.	4.1	7
46	Aluminum incorporation in Î±-PbO2 type TiO2 at pressures up to 20GPa. Physics of the Earth and Planetary Interiors, 2012, 190-191, 87-94.	1.9	4
47	Luminescent rare earth vanadate nanoparticles doped with Eu³⁺and Bi³for sensing and imaging applications. Proceedings of SPIE, 2016, , .	0.8	4
48	Getting more out of X2T2O7 compounds with thortveitite structure: The bond-valence model. Journal of Solid State Chemistry, 2008, 181, 340-344.	2.9	2
49	Influence of OHâ^' concentration on the illitization of kaolinite at high pressure. Applied Clay Science, 2011, 51, 220-225.	5.2	2
50	Engineered polymeric nanovehicles for drug delivery. Frontiers of Nanoscience, 2020, 16, 201-232.	0.6	2
51	Biodegradable particles for protein delivery: Estimation of the release kinetics inside cells. , 2022, 139, 212966.		2
52	Luminescent Rare-earth-based Nanoparticles: A Summarized Overview of their Synthesis, Functionalization, and Applications. Topics in Current Chemistry Collections, 2017, , 107-121.	0.5	0