Erick CastellÃ³n

List of Publications by Year
in descending order

19 papers	258 citations	1040056 9 h-index	996975 15 g-index
21 all docs	21 docs citations	21 times ranked	437 citing authors

#	Article	IF	Citations
1	The experimental average refractive index of liquid crystals and its prediction from the anisotropic indices. Physical Chemistry Chemical Physics, 2022, 24, 7788-7796.	2.8	3
2	The role of coarse aggregates in hydrophobized hydraulic concrete. Emerging Materials Research, 2022, 11, 1-11.	0.7	0
3	Photolysis of the nonsteroidal anti-inflammatory drug sulindac: elucidation of kinetic behaviour and photodegradation pathways in water. Environmental Sciences: Processes and Impacts, 2021, 23, 1405-1417.	3.5	3
4	New method to calculate the anisotropies of polarizability and thermal expansion of uniaxial liquid crystals. Journal of Chemical Physics, 2021, 154, 174905.	3.0	2
5	Anti-adherent Molds Yield Hydraulic Concrete Samples Suitable for Assessments of Surface and Water Absorption. Journal of Civil Engineering and Construction, 2021, 10, 245-252.	0.7	0
6	Increased Nematicâ€“Isotropic Transition Temperature on Doping a Liquid Crystal with Molecularly Rigid Carboxylic Acids. Journal of Physical Chemistry B, 2020, 124, 890-899.	2.6	16
7	Control of water absorption in concrete materials by modification with hybrid hydrophobic silica particles. Construction and Building Materials, 2019, 221, 210-218.	7.2	46
8	How can we effectively improve the mathematical capabilities of students of chemistry?. Chemistry Teacher International, 2019, 1, .	1.7	1
9	Sol-gel materials for electro-optical and optically active humidity-sensitive devices. Journal of Sol-Gel Science and Technology, 2019, 89, 56-61.	2.4	7
10	Novel Reversible Humidityâ€Responsive Light Transmission Hybrid Thinâ€Film Material Based on a Dispersive Porous Structure with Embedded Hygroscopic and Deliquescent Substances. Advanced Functional Materials, 2018, 28, 1704717.	14.9	22
11	Antibacterial biocomposite materials based on essential oils embedded in solâ€“gel hybrid silica matrices. Journal of Sol-Gel Science and Technology, 2016, 79, 584-595.	2.4	13
12	A chemical approach to control the refractive index of solâ€“gel matrices for liquid-crystal dispersion devices. Journal of Sol-Gel Science and Technology, 2016, 78, 411-421.	2.4	4
13	A new lignocellulosic biomass deconstruction process combining thermo-mechano chemical action and bio-catalytic enzymatic hydrolysis in a twin-screw extruder. Industrial Crops and Products, 2014, 55, 258-266.	5.2	69
14	Application of the Second Law of Thermodynamics To Explain the Working of Toys. Journal of Chemical Education, 2014, 91, 687-691.	2.3	2
15	Scattering of Light by Colloidal Aluminosilicate Particles Produces the Unusual Sky-Blue Color of RÃo Celeste (Tenorio Volcano Complex, Costa Rica). PLoS ONE, 2013, 8, e75165.	2.5	12
16	Optical and Electroâ€optical Materials Prepared by the Solâ€Gel Method. Advanced Materials, 2011, 23, 5318-5323.	21.0	15
17	An Electroâ€optical Device from a Biofilm Structure Created by Bacterial Activity. Advanced Materials, 2010, 22, 4846-4850.	21.0	17
18	Molecular configuration transitions of a nematic liquid crystal encapsulated in organically modified silicas. Physical Chemistry Chemical Physics, 2009, 11, 6234.	2.8	19

#	Article	IF	Citations
19	New method for analysis of electrooptical response in liquid crystal devices with non-monotonous relaxation. Liquid Crystals, 0, , 1-9.	2.2	0