

# Erick CastellÃ³n

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5214387/publications.pdf>

Version: 2024-02-01

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	A new lignocellulosic biomass deconstruction process combining thermo-mechano chemical action and bio-catalytic enzymatic hydrolysis in a twin-screw extruder. <i>Industrial Crops and Products</i> , 2014, 55, 258-266.	5.2	69
2	Control of water absorption in concrete materials by modification with hybrid hydrophobic silica particles. <i>Construction and Building Materials</i> , 2019, 221, 210-218.	7.2	46
3	Novel Reversible Humidity-Responsive Light Transmission Hybrid Thin-Film Material Based on a Dispersive Porous Structure with Embedded Hygroscopic and Deliquescent Substances. <i>Advanced Functional Materials</i> , 2018, 28, 1704717.	14.9	22
4	Molecular configuration transitions of a nematic liquid crystal encapsulated in organically modified silicas. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6234.	2.8	19
5	An Electro-Optical Device from a Biofilm Structure Created by Bacterial Activity. <i>Advanced Materials</i> , 2010, 22, 4846-4850.	21.0	17
6	Increased Nematic-Isotropic Transition Temperature on Doping a Liquid Crystal with Molecularly Rigid Carboxylic Acids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 890-899.	2.6	16
7	Optical and Electro-Optical Materials Prepared by the Sol-Gel Method. <i>Advanced Materials</i> , 2011, 23, 5318-5323.	21.0	15
8	Antibacterial biocomposite materials based on essential oils embedded in sol-gel hybrid silica matrices. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 79, 584-595.	2.4	13
9	Scattering of Light by Colloidal Aluminosilicate Particles Produces the Unusual Sky-Blue Color of RÃo Celeste (Tenorio Volcano Complex, Costa Rica). <i>PLoS ONE</i> , 2013, 8, e75165.	2.5	12
10	Sol-gel materials for electro-optical and optically active humidity-sensitive devices. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 56-61.	2.4	7
11	A chemical approach to control the refractive index of sol-gel matrices for liquid-crystal dispersion devices. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 411-421.	2.4	4
12	Photolysis of the nonsteroidal anti-inflammatory drug sulindac: elucidation of kinetic behaviour and photodegradation pathways in water. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1405-1417.	3.5	3
13	The experimental average refractive index of liquid crystals and its prediction from the anisotropic indices. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7788-7796.	2.8	3
14	Application of the Second Law of Thermodynamics To Explain the Working of Toys. <i>Journal of Chemical Education</i> , 2014, 91, 687-691.	2.3	2
15	New method to calculate the anisotropies of polarizability and thermal expansion of uniaxial liquid crystals. <i>Journal of Chemical Physics</i> , 2021, 154, 174905.	3.0	2
16	How can we effectively improve the mathematical capabilities of students of chemistry?. <i>Chemistry Teacher International</i> , 2019, 1, .	1.7	1
17	New method for analysis of electrooptical response in liquid crystal devices with non-monotonous relaxation. <i>Liquid Crystals</i> , 0, , 1-9.	2.2	0
18	Anti-adherent Molds Yield Hydraulic Concrete Samples Suitable for Assessments of Surface and Water Absorption. <i>Journal of Civil Engineering and Construction</i> , 2021, 10, 245-252.	0.7	0

#	ARTICLE	IF	CITATIONS
19	The role of coarse aggregates in hydrophobized hydraulic concrete. Emerging Materials Research, 2022, 11, 1-11.	0.7	0