

Luca Catalano

List of Publications by Year in descending order

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times ranked

1884
citing authors

#	ARTICLE	IF	CITATIONS
1	The Rise of the Dynamic Crystals. <i>Journal of the American Chemical Society</i> , 2020, 142, 13256-13272.	6.6	229
2	Dual-Mode Light Transduction through a Plastically Bendable Organic Crystal as an Optical Waveguide. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17254-17258.	7.2	169
3	Micromanipulation of Mechanically Compliant Organic Single-Crystal Optical Microwaveguides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13821-13830.	7.2	129
4	Luminescence Properties of 1,8-Naphthalimide Derivatives in Solution, in Their Crystals, and in Co-crystals: Toward Room-Temperature Phosphorescence from Organic Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18646-18658.	1.5	123
5	Spatial Photocontrol of the Optical Output from an Organic Crystal Waveguide. <i>Journal of the American Chemical Society</i> , 2019, 141, 14966-14970.	6.6	106
6	Halogen Bonding beyond Crystals in Materials Science. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9281-9290.	1.2	95
7	Dynamic Characterization of Crystalline Supramolecular Rotors Assembled through Halogen Bonding. <i>Journal of the American Chemical Society</i> , 2015, 137, 15386-15389.	6.6	88
8	Supramolecular amplification of amyloid self-assembly by iodination. <i>Nature Communications</i> , 2015, 6, 7574.	5.8	88
9	Rotational Dynamics of Diazabicyclo[2.2.2]octane in Isomorphous Halogen-Bonded Co-crystals: Entropic and Enthalpic Effects. <i>Journal of the American Chemical Society</i> , 2017, 139, 843-848.	6.6	71
10	Mechanically robust amino acid crystals as fiber-optic transducers and wide bandpass filters for optical communication in the near-infrared. <i>Nature Communications</i> , 2021, 12, 1326.	5.8	67
11	Halogen Bonding in Hypervalent Iodine Compounds. <i>Topics in Current Chemistry</i> , 2016, 373, 289-309.	4.0	46
12	Dualmodus-Lichttransduktion durch einen plastisch biegbaren organischen Kristall als optischer Wellenleiter. <i>Angewandte Chemie</i> , 2018, 130, 17501-17505.	1.6	41
13	Natural Abundance ^{15}N and ^{13}C Solid-State NMR Chemical Shifts: High Sensitivity Probes of the Halogen Bond Geometry. <i>Chemistry - A European Journal</i> , 2016, 22, 16819-16828.	1.7	37
14	Exploiting rotational motion in molecular crystals. <i>CrystEngComm</i> , 2018, 20, 5872-5883.	1.3	36
15	A filled organic crystal as a hybrid large-bandwidth optical waveguide. <i>Chemical Communications</i> , 2019, 55, 4921-4924.	2.2	31
16	Sequencing and Welding of Molecular Single-Crystal Optical Waveguides. <i>Advanced Functional Materials</i> , 2020, 30, 2003443.	7.8	30
17	Micromanipulation of Mechanically Compliant Organic Single-Crystal Optical Microwaveguides. <i>Angewandte Chemie</i> , 2020, 132, 13925-13934.	1.6	30
18	Fluorescent crystals and co-crystals of 1,8-naphthalimide derivatives: synthesis, structure determination and photophysical characterization. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9425-9434.	2.7	29

#	ARTICLE	IF	CITATIONS
19	Mapping the polymorphic transformation gateway vibration in crystalline 1,2,4,5-tetrabromobenzene. <i>Chemical Science</i> , 2019, 10, 1332-1341.	3.7	26
20	Multifunctional Deformable Organic Semiconductor Single Crystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26151-26157.	7.2	26
21	Characteristic redshift and intensity enhancement as far-IR fingerprints of the halogen bond involving aromatic donors. <i>CrystEngComm</i> , 2016, 18, 2247-2250.	1.3	25
22	Halogen-bond driven self-assembly of triangular macrocycles. <i>New Journal of Chemistry</i> , 2018, 42, 10467-10471.	1.4	22
23	Superfluorinated and NIR-luminescent gold nanoclusters. <i>Chemical Communications</i> , 2017, 53, 621-624.	2.2	20
24	Open versus Interpenetrated: Switchable Supramolecular Trajectories in Mechanosynthesis of a Halogen-Bonded Borromean Network. <i>CheM</i> , 2021, 7, 146-154.	5.8	17
25	Thermochemiluminescent peroxide crystals. <i>Nature Communications</i> , 2019, 10, 997.	5.8	16
26	Exceptionally high work density of a ferroelectric dynamic organic crystal around room temperature. <i>Nature Communications</i> , 2022, 13, .	5.8	15
27	Halogen bonding as a key interaction in the self-assembly of iodinated diphenylalanine peptides. <i>Peptide Science</i> , 2020, 112, e24127.	1.0	13
28	Structure-Mechanical Relationships in Polymorphs of an Organic Semiconductor (C4-NT3N). <i>Crystal Growth and Design</i> , 2020, 20, 884-891.	1.4	13
29	Autonomous Reconstitution of Fractured Hybrid Perovskite Single Crystals. <i>Advanced Materials</i> , 2022, 34, e2109374.	11.1	11
30	Metric engineering in hybrid perfluorocarbon-hydrocarbon cocrystals. <i>Journal of Fluorine Chemistry</i> , 2017, 196, 32-36.	0.9	5
31	Supramolecular Organization of Model Polycyclic Aromatic Molecules: Comparison of 2D and 3D Assemblies. <i>ChemNanoMat</i> , 2020, 6, 68-72.	1.5	3
32	Accessing Unexplored Supramolecular Trajectories through Mechanochemistry. <i>CheM</i> , 2021, 7, 3-4.	5.8	0
33	Multifunctional Deformable Organic Semiconductor Single Crystals. <i>Angewandte Chemie</i> , 0, , .	1.6	0