Naba K Nath

List of Publications by Year
in descending order

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36 papers	2,709 citations	304743 22 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	2453 citing authors

#	Article	IF	Citations
1	Mechanically Responsive Molecular Crystals. Chemical Reviews, 2015, 115, 12440-12490.	47.7	678
2	The Nature and Applications of Ï€â€“Ï€ Interactions: A Perspective. Crystal Growth and Design, 2019, 19, 523-528.	3.0	237
3	Thermally induced and photoinduced mechanical effects in molecular single crystalsâ€”a revival. CrystEngComm, 2014, 16, 1850.	2.6	206
4	Model for Photoinduced Bending of Slender Molecular Crystals. Journal of the American Chemical Society, 2014, 136, 2757-2766.	13.7	180
5	Colossal positive and negative thermal expansion and thermosalient effect in a pentamorphic organometallic martensite. Nature Communications, 2014, 5, 4811.	12.8	168
6	Synthon Competition and Cooperation in Molecular Salts of Hydroxybenzoic Acids and Aminopyridines. Crystal Growth and Design, 2009, 9, 1546-1557.	3.0	163
7	Biomimetic Crystalline Actuators: Structureâ€“Kinematic Aspects of the Self-Actuation and Motility of Thermosalient Crystals. Journal of the American Chemical Society, 2013, 135, 12241-12251.	13.7	155
8	Thermally Twistable, Photobendable, Elastically Deformable, and Selfâ€Healable Soft Crystals. Angewandte Chemie - International Edition, 2018, 57, 8498-8502.	13.8	154
9	Surface and Bulk Effects in Photochemical Reactions and Photomechanical Effects in Dynamic Molecular Crystals. Journal of the American Chemical Society, 2015, 137, 13866-13875.	13.7	109
10	Actuation based on thermo/photosalient effect: a biogenic smart hybrid driven by light and heat. RSC Advances, 2014, 4, 7640-7647.	3.6	58
11	Structureâ€“Reactivity Correlations and Mechanistic Understanding of the Photorearrangement and Photosalient Effect of Î±-Santonin and Its Derivatives in Solutions, Crystals, and Nanocrystalline Suspensions. Crystal Growth and Design, 2015, 15, 1983-1990.	3.0	53
12	Crystalline Acylhydrazone Photoswitches with Multiple Mechanical Responses. Crystal Growth and Design, 2019, 19, 3039-3044.	3.0	53
13	Thermally Twistable, Photobendable, Elastically Deformable, and Selfâ€Healable Soft Crystals. Angewandte Chemie, 2018, 130, 8634-8638.	2.0	50
14	Isomorphous Crystals by Chloroâ€“Methyl Exchange in Polymorphic Fuchsones. Crystal Growth and Design, 2012, 12, 5411-5425.	3.0	46
15	Novel form V of tolbutamide and a high Zâ€² crystal structure of form III. CrystEngComm, 2011, 13, 47-51.	2.6	36
16	Isostructural polymorphs of triiodophloroglucinol and triiodoresorcinol. New Journal of Chemistry, 2008, 32, 1693.	2.8	34
17	Organic Molecular Crystals with Dual Stress-Induced Mechanical Response: Elastic and Plastic Flexibility. Crystal Growth and Design, 2021, 21, 1931-1938.	3.0	32
18	Polymorphism in Fuchsones. Crystal Growth and Design, 2008, 8, 140-154.	3.0	30

#	Article	IF	Citations
19	Neutral and Zwitterionic Polymorphs of 2-(p-Tolylamino)nicotinic Acid. Crystal Growth and Design, 2011, 11, 4594-4605.	3.0	27
20	Mechanochemical Synthesis of Olanzapine Salts and Their Hydration Stability Study Using Powder X-ray Diffraction. Crystal Growth and Design, 2018, 18, 2138-2150.	3.0	27
21	Polymorphism and isostructurality in sulfonylhydrazones. CrystEngComm, 2014, 16, 4681-4690.	2.6	24
22	Crystal structures of mirtazapine molecular salts. CrystEngComm, 2011, 13, 3232.	2.6	23
23	The Light Emitter of the 2â€CoumarÂanone Chemiluminescence: Theoretical and Experimental Elucidation of a Possible Model for Bioluminescent Systems. European Journal of Organic Chemistry, 2016, 2016, 678-681.	2.4	22
24	Crystal Structure of Methyl Paraben Polymorph II. Crystal Growth and Design, 2011, 11, 967-971.	3.0	21
25	Plastically bendable crystals of probenecid and its cocrystal with 4,4â€²-Bipyridine. Journal of Molecular Structure, 2018, 1160, 20-25.	3.6	20
26	Temozolomide hydrochloride dihydrate. CrystEngComm, 2013, 15, 666-671.	2.6	17
27	Chiral and Racemic Tetramorphs of 2,6-Di-t-Butylditolylfuchsone. Crystal Growth and Design, 2012, 12, 1613-1625.	3.0	14
28	Plastically Deformable and Exfoliating Molecular Crystals of a 2-D Coordination Polymer and Its Ligand. Crystal Growth and Design, 2019, 19, 6033-6038.	3.0	14
29	Nâ€“Hâ€¦N(pyridyl) and Nâ€“Hâ€¦O(urea) hydrogen bonding and molecular conformation of N-aryl-Nâ€²-pyridylureas. Journal of Molecular Structure, 2010, 968, 99-107.	3.6	12
30	Mechanical Flexibility of Molecular Crystals Achieved by Exchanging Hydrogen Bonding Synthons. Crystal Growth and Design, 2020, 20, 2847-2852.	3.0	12
31	Photomechanical response of sulfonylhydrazone molecular crystals. CrystEngComm, 2021, 23, 4910-4916.	2.6	10
32	Singleâ€Crystalâ€toâ€Singleâ€Crystal Transition in an Enantiopure [7]Helquat Salt: The First Observation of a Reversible Phase Transition in a Heliceneâ€Like Compound. Chemistry - A European Journal, 2015, 21, 13508-13512.	3.3	7
33	Visibleâ€Lightâ€Induced Photodimerization of a Photoactive Yellow Protein (PYP) Chromophore Model in a Single Crystal. Chemistry - A European Journal, 2013, 19, 8094-8099.	3.3	6
34	In situ crystallization and crystal structure determination of chlorobenzene. Macedonian Journal of Chemistry and Chemical Engineering, 2015, 34, 63.	0.6	5
35	Structural Elucidation of the Neuraminidase Inhibitor Zanamivir (Relenza): Creeping and Diffusion for Polymorph Separation. Crystal Growth and Design, 2014, 14, 770-774.	3.0	3
36	Synthesis and characterization of two dioxidomolybdenum(VI) complexes bearing amidinato and pyrazolato ligands and their use in thin film growth and oxygen atom transfer reactions. Polyhedron, 2018, 147, 36-41.	2.2	3