

# Tanusree Kar

## List of Publications by Year in descending order

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65  
papers

2,968  
citations

159585

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docs citations

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times ranked

2359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Self-Assembly of M-IDA Complexes Involving Lone-Pair $\cdots$ Interactions: Crystal Structures, Hirshfeld Surface Analysis, and DFT Calculations [H <sub>2</sub> IDA = iminodiacetic acid, M = Cu(II), Ni(II)]. <i>Crystal Growth and Design</i> , 2011, 11, 3250-3265.	3.0	304
2	Use of $\pi\cdots\pi$ forces to steer the assembly of chromone derivatives into hydrogen bonded supramolecular layers: crystal structures and Hirshfeld surface analyses. <i>CrystEngComm</i> , 2011, 13, 4528.	2.6	209
3	On the Possibility of Tuning Molecular Edges To Direct Supramolecular Self-Assembly in Coumarin Derivatives through Cooperative Weak Forces: Crystallographic and Hirshfeld Surface Analyses. <i>Crystal Growth and Design</i> , 2011, 11, 4837-4849.	3.0	184
4	Insight into supramolecular self-assembly directed by weak interactions in acetophenone derivatives: crystal structures and Hirshfeld surface analyses. <i>CrystEngComm</i> , 2011, 13, 6728.	2.6	161
5	Synthesis, Growth, and Characterization of L-Arginine Acetate Crystal: A Potential NLO Material. <i>Crystal Growth and Design</i> , 2003, 3, 13-16.	3.0	156
6	Molecular architecture using novel types of non-covalent $\pi$ -interactions involving aromatic neutrals, aromatic cations and $\pi$ -anions. <i>CrystEngComm</i> , 2013, 15, 1285.	2.6	136
7	A successive layer-by-layer assembly of supramolecular frameworks driven by a novel type of face-to-face $\pi\cdots\pi$ interactions. <i>CrystEngComm</i> , 2013, 15, 7879.	2.6	130
8	Structural elucidation, Hirshfeld surface analysis and quantum mechanical study of para-nitro benzylidene methyl argjunolate. <i>Journal of Molecular Structure</i> , 2011, 1000, 120-126.	3.6	104
9	Structural elucidation and electronic properties of two pyrazole derivatives: A combined X-ray, Hirshfeld surface analyses and quantum mechanical study. <i>Chemical Physics Letters</i> , 2011, 506, 309-314.	2.6	94
10	Microstructure characterization of hydrothermally synthesized PANI/V <sub>2</sub> O <sub>5</sub> $\cdot$ nH <sub>2</sub> O heterojunction photocatalyst for visible light induced photodegradation of organic pollutants and non-absorbing colorless molecules. <i>Journal of Hazardous Materials</i> , 2017, 339, 161-173.	12.4	88
11	Growth and characterization of nonlinear optical material, LAHClBr a new member of L-arginine halide family. <i>Journal of Crystal Growth</i> , 2002, 235, 523-528.	1.5	66
12	Morphology, Crystal Structure, and Thermal and Spectral Studies of Semiorganic Nonlinear Optical Crystal LAHClBr. <i>Crystal Growth and Design</i> , 2004, 4, 743-747.	3.0	62
13	Intriguing $\pi\cdots\pi$ Interaction in Crystal Packing. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4166-4170.	2.6	55
14	Etch pit study of different crystallographic faces of L-arginine hydrobromide monohydrate (LAHBr) in some organic acids. <i>Journal of Crystal Growth</i> , 1999, 204, 341-347.	1.5	51
15	Optical, mechanical and thermal studies of nonlinear optical crystal L-arginine acetate. <i>Materials Chemistry and Physics</i> , 2005, 91, 343-347.	4.0	50
16	Growth and characterization of nonlinear optical crystal zinc tris (thiourea) sulphate in presence of L-arginine. <i>Optical Materials</i> , 2007, 30, 508-512.	3.6	50
17	Hydrothermal synthesis of polyaniline intercalated vanadium oxide xerogel hybrid nanocomposites: effective control of morphology and structural characterization. <i>New Journal of Chemistry</i> , 2017, 41, 3634-3645.	2.8	50
18	Single crystal growth and characterization of the nonlinear optical crystal L-arginine hydrofluoride. <i>Journal of Crystal Growth</i> , 2002, 234, 267-271.	1.5	45

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19	Synthesis and characterization of PMMA/cellulose nanocomposites by <i>in situ</i> polymerization technique. Journal of Applied Polymer Science, 2012, 126, E127.	2.6	45
20	Structural studies and physicochemical properties of L-valine hydrochloride monohydrate. CrystEngComm, 2013, 15, 7372.	2.6	45
21	Crystal structure and DFT calculations of andrographiside. Journal of Molecular Structure, 2010, 965, 45-49.	3.6	42
22	Use of maleated castor oil as biomodifier in unsaturated polyester resin/fly ash composites. Industrial Crops and Products, 2011, 34, 893-899.	5.2	42
23	Growth and characterization of nonlinear optical L-arginine dihydrate single crystals. Journal of Crystal Growth, 2005, 285, 178-182.	1.5	41
24	Thermal and spectroscopic studies of as-grown L-arginine hydrochloride monohydrate crystals. Materials Chemistry and Physics, 1998, 57, 72-76.	4.0	39
25	Synthesis, crystal structure, characterization and DFT studies of L-valine L-valinium hydrochloride. Journal of Crystal Growth, 2010, 312, 1977-1982.	1.5	37
26	Synthesis, growth and characterization of a new nonlinear optical crystal: L-arginine maleate dihydrate. Crystal Research and Technology, 2005, 40, 778-781.	1.3	36
27	Second harmonic generation of a new nonlinear optical material L-valine hydrobromide. Journal of Crystal Growth, 2008, 310, 4539-4543.	1.5	34
28	Surface treatment of cellulose fibers with methylmethacrylate for enhanced properties of <i>in situ</i> polymerized PMMA/cellulose composites. Journal of Applied Polymer Science, 2014, 131, .	2.6	33
29	Studies of microhardness anisotropy and Young's modulus of nonlinear optical crystal L-arginine hydrochlorobromo monohydrate. Materials Letters, 2005, 59, 1400-1404.	2.6	31
30	Optical, thermal and structural characterization of an NLO crystal, L-arginine perchlorate. Journal of Crystal Growth, 2005, 274, 251-255.	1.5	30
31	Structural interpretation of chemically synthesized ZnO nanorod and its application in lithium ion battery. Applied Surface Science, 2015, 329, 206-211.	6.1	30
32	Etch pit study of different crystallographic faces of L-arginine hydrobromide monohydrate (LAHBr) in alcohols. Journal of Crystal Growth, 1999, 200, 543-549.	1.5	25
33	Surface Micromorphology of Different Crystallographic Faces of L-arginine Hydrochloride Monohydrate Etched in Organic Solvents. Japanese Journal of Applied Physics, 1999, 38, 832-837.	1.5	25
34	Crystallization and characterization of nonlinear optical material L-arginine formomaleate. Materials Letters, 2007, 61, 3826-3828.	2.6	23
35	Experimental observation of supramolecular carbonyl-carbonyl assemblies of CuII complex of iminodiacetate and dipyriddyamine. Journal of Molecular Structure, 2010, 973, 81-88.	3.6	23
36	Bulk single crystal growth and characterization of L-leucine - A nonlinear optical material. Materials Chemistry and Physics, 2012, 133, 1055-1059.	4.0	23

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37	Growth, optical and thermal characterization of bis(thiourea)zinc chloride single crystals. <i>Optical Materials</i> , 2008, 30, 1621-1624.	3.6	21
38	Experimental and theoretical studies on physicochemical properties of l-leucine nitrate—a probable nonlinear optical material. <i>Journal of Crystal Growth</i> , 2012, 356, 4-9.	1.5	21
39	New Materials from Maleated Castor Oil/Epoxy Resin Blend Reinforced with Fly Ash. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 2603-2608.	3.7	21
40	Effect of modified cellulose fibres on the biodegradation behaviour of in-situ formed PMMA/cellulose composites in soil environment: Isolation and identification of the composite degrading fungus. <i>Polymer Degradation and Stability</i> , 2014, 99, 156-165.	5.8	21
41	Anion-π interaction stitching 2-D layers formed by self-assembly of cations of a mononuclear copper(II) complex: synthesis, crystal structure and magnetism of [Cu(OAc) <sub>2</sub> (2,2'-dypam) <sub>2</sub> ](ClO <sub>4</sub> ) <sub>4</sub> [HOAc = acetic acid, 2,2'-dypam = 2,2'-dipyridylamine]. <i>Journal of Coordination Chemistry</i> , 2009, 62, 540-551.	2.2	20
42	Knoop microhardness anisotropy and Young's modulus of l-arginine hydrochloride monohydrate and l-arginine hydrobromide monohydrate. <i>Materials Research Bulletin</i> , 2000, 35, 711-717.	5.2	19
43	Vickers microhardness studies of l-arginine halide mixed crystals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 354, 331-336.	5.6	16
44	Structural and thermal characterization of L-arginine dihydrate - a nonlinear optical material. <i>Crystal Research and Technology</i> , 2006, 41, 280-284.	1.3	16
45	Synthesis, structural elucidation and DFT studies of ortho-hydroxy acetophenones. <i>Journal of Molecular Structure</i> , 2009, 936, 277-282.	3.6	16
46	A dinuclear oxo-bridged Fe(III) complex with tris(2-pyridylmethyl) amine: Structure and Hirshfeld surface analysis. <i>Journal of Molecular Structure</i> , 2011, 994, 109-116.	3.6	16
47	A comparative study of polymethylmethacrylate/cellulose nanocomposites prepared by in situ polymerization and ex situ dispersion techniques. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 147-159.	3.1	16
48	Experimental and theoretical characterization of semiorganic nonlinear optical material l-leucine hydrobromide. <i>Materials Research Bulletin</i> , 2013, 48, 1612-1617.	5.2	16
49	Synthesis, crystal growth and characterization of di-valine maleic — a new nonlinear optical material. <i>RSC Advances</i> , 2016, 6, 99139-99148.	3.6	16
50	Studies on growth defects and mechanical properties of nonlinear optical crystal: l-arginine hydrofluoride. <i>Journal of Crystal Growth</i> , 2005, 276, 247-252.	1.5	15
51	Amino acids-precursors for synthesizing nonlinear optical materials. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2012, 58, 74-83.	4.0	14
52	Synthesis, crystal structure and solubility of C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> ·C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> ·2H <sub>2</sub> O. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 508-512.	6.1	13
53	Structural changes of starch/polyvinyl alcohol biocomposite films reinforced with microcrystalline cellulose due to biodegradation in simulated aerobic compost environment. <i>Journal of Applied Polymer Science</i> , 2011, 122, 2503-2511.	2.6	13
54	Studies on mechanical properties of an organic nonlinear optical crystal. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 437, 235-239.	5.6	12

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55	Synthesis and characterization of bis(thiourea)zinc chloride doped with L-arginine. <i>Materials Chemistry and Physics</i> , 2009, 117, 204-208.	4.0	12
56	Lauric acid coated fly ash as a reinforcement in recycled polymer matrix composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	11
57	Microhardness study of the nonlinear optical crystal L-arginine hydrochloride monohydrate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000, 31, 3087-3090.	2.2	8
58	Quantifying intermolecular interaction of anthrylidene methyl arjunolate: Insights from Hirshfeld surface analysis. <i>Journal of Molecular Structure</i> , 2012, 1021, 89-94.	3.6	7
59	Structural, Optical Characterization and Growth Mechanism of Kadamba Flower like ZnO Nanocrystals Synthesized by a Simple Chemical Route.. <i>ChemistrySelect</i> , 2016, 1, 3705-3712.	1.5	7
60	Investigations of Microstructure and Dc Conductivity of $V_{2}O_{5} \text{Nd}_{2}O_{3}$ Glass Nanocomposites. <i>ChemistrySelect</i> , 2017, 2, 11273-11280.	1.5	7
61	Enhanced mechanical properties of single walled carbon nanotube-borosilicate glass composite due to cushioning effect and localized plastic flow. <i>AIP Advances</i> , 2011, 1, .	1.3	6
62	Redetermination of 14-deoxyandrographolide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2743-o2745.	0.2	3
63	Studies on surface micromorphology and growth mechanism of nonlinear optical crystal: L-arginine hydrochlorobromo monohydrate. <i>Journal of Crystal Growth</i> , 2006, 289, 202-206.	1.5	3
64	Dislocation structure and microhardness of L-arginine perchlorate single crystal. <i>Indian Journal of Physics</i> , 2009, 83, 1395-1406.	1.8	2
65	Studies on the optical, thermal and mechanical properties of nonlinear optical material " Di-leucine hydrochloride. <i>Materials Chemistry and Physics</i> , 2014, 148, 457-462.	4.0	1