

Susanta K Nayak

List of Publications by Year in descending order

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80
papers

1,509
citations

346980

22
h-index

371746

37
g-index

83
all docs

83
docs citations

83
times ranked

2465
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of supramolecular interactions directing crystal packing of a A combination of XRD, MEP, NBO, QTAIM, and NCI analyses. Journal of Molecular Structure, 2021, 1228, 129438.	1.8	3
2	Chemistry, anti-diabetic activity and structural analysis of substituted dihydropyrimidine analogues. Journal of Molecular Structure, 2021, 1227, 129412.	1.8	8
3	Crystallography, Molecular Modeling, and COX-2 Inhibition Studies on Indolizine Derivatives. Molecules, 2021, 26, 3550.	1.7	10
4	Interplay of Halogen and Hydrogen Bonding through Co-crystallization in Pharmacologically Active Dihydropyrimidines: Insights from Crystal Structure and Energy Framework. ChemPlusChem, 2021, 86, 1167-1176.	1.3	10
5	Anti-tubercular activity and molecular docking studies of indolizine derivatives targeting mycobacterial InhA enzyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1471-1486.	2.5	23
6	Antidiabetic Activity of Dihydropyrimidine Scaffolds and Structural Insight by Single Crystal X-ray Studies. Medicinal Chemistry, 2020, 16, 996-1003.	0.7	9
7	Molecular Bases for Anesthetic Agents: Halothane as a Halogen and Hydrogen Bond Donor. Angewandte Chemie, 2019, 131, 12586-12589.	1.6	4
8	Molecular Bases for Anesthetic Agents: Halothane as a Halogen and Hydrogen Bond Donor. Angewandte Chemie - International Edition, 2019, 58, 12456-12459.	7.2	10
9	Design, synthesis, and structural elucidation of novel NmeNANAS inhibitors for the treatment of meningococcal infection. PLoS ONE, 2019, 14, e0223413.	1.1	12
10	Innentitelbild: Molecular Bases for Anesthetic Agents: Halothane as a Halogen and Hydrogen Bond Donor (Angew. Chem. 36/2019). Angewandte Chemie, 2019, 131, 12436-12436.	1.6	0
11	Novel Series of Methyl 3-(Substituted Benzoyl)-7-Substituted-2-Phenylindolizine-1-Carboxylates as Promising Anti-Inflammatory Agents: Molecular Modeling Studies. Biomolecules, 2019, 9, 661.	1.8	21
12	Benzothiazole analogs as potential anti-TB agents: computational input and molecular dynamics. Journal of Biomolecular Structure and Dynamics, 2019, 37, 1830-1842.	2.0	25
13	Crystal structure of a 1:1 cocrystal of nicotinamide with 2-chloro-5-nitrobenzoic acid. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1712-1718.	0.2	3
14	Tailoring the self-assembling abilities of functional hybrid nanomaterials: from rod-like to disk-like clustomesogens based on a luminescent {Mo ₆ Br ₈ } ⁴⁺ inorganic cluster core. Journal of Materials Chemistry C, 2018, 6, 2556-2564.	2.7	6
15	Observation of 3D isostructurality in halogen substituted N-benzoyl-N-phenylbenzamides. Journal of Molecular Structure, 2018, 1164, 280-288.	1.8	1
16	Quantitative investigation of intermolecular interactions in dimorphs of 3-Chloro-N-(2-fluorophenyl)benzamide and 2-Iodo-N-(4-bromophenyl)benzamide. Journal of Chemical Sciences, 2018, 130, 1.	0.7	2
17	One-pot microwave assisted synthesis and structural elucidation of novel ethyl 3-substituted-7-methylindolizine-1-carboxylates with larvicidal activity against Anopheles arabiensis. Journal of Molecular Structure, 2018, 1156, 377-384.	1.8	36
18	Larvicidal study of tetrahydropyrimidine scaffolds against <i>Anopheles arabiensis</i> and structural insight by single crystal X-ray studies. Chemical Biology and Drug Design, 2018, 92, 1924-1932.	1.5	13

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19	Ionic columnar clustomesogens: associations between anionic hexanuclear rhenium clusters and liquid crystalline triphenylene tethered imidazoliums. <i>Dalton Transactions</i> , 2018, 47, 10884-10896.	1.6	13
20	Structural analysis of 2-iodobenzamide and 2-iodo- <i>N</i> -phenylbenzamide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 1130-1133.	0.2	3
21	Crystal structure of 1-[3,5-bis(trifluoromethyl)phenyl]-2-bromoethan-1-one. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 868-870.	0.2	0
22	Crystal structure and Hirshfeld surface analysis of diethyl 2-[4-(4-fluorophenyl)-2-methyl-4-oxobutan-2-yl]malonate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 1388-1391.	0.2	0
23	Fluorination promotes chalcogen bonding in crystalline solids. <i>CrystEngComm</i> , 2017, 19, 4955-4959.	1.3	53
24	Structure analysis of hydroxy/non-hydroxy substituted dihydropyrimidine molecules. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C421-C421.	0.0	0
25	Unusual polymorphs of thymine. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1412-C1412.	0.0	0
26	Preliminary studies on unusual polymorphs of thymine: Structural comparison with other nucleobases. <i>Journal of Molecular Structure</i> , 2016, 1120, 86-99.	1.8	10
27	Post in-situ reaction ultrasonic treatment for generation of Al ₄ Cu/TiB ₂ nanocomposite: A route to enhance the strength of metal matrix nanocomposites. <i>Journal of Alloys and Compounds</i> , 2016, 683, 370-378.	2.8	51
28	Crystal structure of methyl 4-(4-hydroxyphenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate monohydrate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016, 72, 1335-1338.	0.2	3
29	Synthesis, Polymorphism, and Insecticidal Activity of Methyl 4-(4-chlorophenyl)-6-iodo-2-methyl-2-oxo-1,6-dihydro-4 <i>H</i> -pyrimido[2,1- <i>b</i>]quinoxaline-3-carboxylate Against <i>Anopheles arabiensis</i> Mosquito. <i>Chemical Biology and Drug Design</i> , 2016, 88, 88-96.	0.3	3
30	Phosphorescent columnar hybrid materials containing polyionic inorganic nanoclusters. <i>Chemical Communications</i> , 2016, 52, 3127-3130.	2.2	23
31	From metallic cluster-based ceramics to nematic hybrid liquid crystals: a double supramolecular approach. <i>Chemical Communications</i> , 2015, 51, 3774-3777.	2.2	38
32	Fabrication of compact electron gun for 6 MeV X-ray source. , 2014, , .		0
33	Machining and brazing of accelerating RF cavity. , 2014, , .		6
34	A Donor-Acceptor Donor Structured Organic Conductor with S ₂ S Chalcogen Bonding. <i>Crystal Growth and Design</i> , 2014, 14, 459-466.	1.4	60
35	Orthogonal halogen and hydrogen bonds involving a peptide bond model. <i>CrystEngComm</i> , 2014, 16, 8102-8105.	1.3	47
36	C ⁺ halogen ⁻ O supramolecular synthons: <i>in situ</i> cryocrystallisation of 1,2-dihalotetrafluoroethane/HMPA adducts. <i>Supramolecular Chemistry</i> , 2013, 25, 718-727.	1.5	8

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37	Design and synthesis of positional isomers of 5 and 6-bromo-1-[(phenyl)sulfonyl]-2-[(4-nitrophenoxy)methyl]-1H-benzimidazoles as possible antimicrobial and antitubercular agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5228-5234.	1.0	49
38	Crystal structures and binding studies of atovaquone and its derivatives with cytochrome bc1: a molecular basis for drug design. <i>CrystEngComm</i> , 2013, 15, 4871.	1.3	10
39	Synthesis and Antitubercular Activity of 2-((substituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (phenyl/benzyl)€amin Chemical Biology and Drug Design, 2013, 81, 219-227.	1.5	38
40	Synthesis and antimosquito properties of 2,6-substituted benzo[d]thiazole and 2,4-substituted benzo[d]thiazole analogues against <i>Anopheles arabiensis</i> . <i>European Journal of Medicinal Chemistry</i> , 2013, 65, 295-303.	2.6	59
41	The fifth solvatomorph of gallic acid with a supramolecular channel structure: Structural complexity and phase transitions. <i>Journal of Molecular Structure</i> , 2013, 1032, 88-92.	1.8	8
42	{2-[(1,3-Benzothiazol-2-yl)methoxy]-5-bromophenyl}(phenyl)methanone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o984-o984.	0.2	1
43	2-(4-Bromoanilino)-6-(4-chlorophenyl)-5-methoxycarbonyl-4-methyl-3,6-dihydropyrimidin-1-ium chloride. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o518-o519.	0.2	0
44	{2-[(1,3-Benzothiazol-2-yl)methoxy]-5-fluorophenyl}(4-chlorophenyl)methanone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o1007-o1008.	0.2	1
45	[2-(1,3-Benzothiazol-2-ylmethoxy)-5-bromophenyl](4-chlorophenyl)methanone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o70-o70.	0.2	4
46	Methyl 4-(4-chlorophenyl)-8-iodo-2-methyl-6-oxo-1,6-dihydro-4 <i>H</i> -pyrimido[2,1- <i>b</i>]quinazoline-3-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o123-o124.	0.2	3
47	{2-[(1,3-Benzothiazol-2-yl)methoxy]-5-chlorophenyl}(4-chlorophenyl)methanone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o1124-o1124.	0.2	2
48	(2-(Benzo[d]thiazol-2-yl-methoxy)-5-chlorophenyl)(phenyl)methanone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3125-o3125.	0.2	4
49	Methyl 2,6-diphenyl-1-p-tolyl-4-(p-tolylamino)-1,2,5,6-tetrahydropyridine-3-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2392-o2393.	0.2	3
50	Methyl (E)-2-[(3-chloro-4-cyanophenyl)imino]-4-(4-chlorophenyl)-6-methyl-1,2,3,4-tetrahydropyrimidine-5-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2977-o2978.	0.2	2
51	Câ€“Brâˆ“O supramolecular synthon: in situ cryocrystallography of low melting halogen-bonded complexes. <i>CrystEngComm</i> , 2012, 14, 4259.	1.3	29
52	Evaluation of the role of disordered organic fluorine in crystal packing: insights from halogen substituted benzanilides. <i>CrystEngComm</i> , 2012, 14, 200-210.	1.3	41
53	Transmembrane anion transport mediated by halogen-bond donors. <i>Nature Communications</i> , 2012, 3, 905.	5.8	217
54	Design, synthesis of some new (2-aminothiazol-4-yl)methylester derivatives as possible antimicrobial and antitubercular agents. <i>European Journal of Medicinal Chemistry</i> , 2012, 49, 172-182.	2.6	57

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55	Role of Hetero-Halogen (F \cdots X, X = Cl, Br, and I) or Homo-Halogen (X \cdots X, X = F, Cl, Br, and I) Interactions in Substituted Benzanilides. <i>Crystal Growth and Design</i> , 2011, 11, 1578-1596.	1.4	103
56	Conformation-Changing Aggregation in Hydroxyacetone: A Combined Low-Temperature FTIR, Jet, and Crystallographic Study. <i>Journal of the American Chemical Society</i> , 2011, 133, 20194-20207.	6.6	21
57	Chapter 3. Role of Fluorine in Weak Interactions in Co-crystals. <i>RSC Drug Discovery Series</i> , 2011, , 29-43.	0.2	3
58	Insights into conformational and packing features in a series of aryl substituted ethyl-6-methyl-4-phenyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylates. <i>CrystEngComm</i> , 2011, 13, 591-605.	1.3	23
59	Ethyl 6-methyl-2-sulfanylidene-4-[4-(trifluoromethyl)phenyl]-1,2,3,4-tetrahydropyrimidine-5-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o1559-o1560.	0.2	2
60	Ethyl 4-(1,3-benzodioxol-5-yl)-6-methyl-2-sulfanylidene-1,2,3,4-tetrahydropyrimidine-5-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o3069-o3070.	0.2	2
61	Supramolecular assembly of hetero-halogen (F \cdots X) or homo-halogen (X \cdots X, X= F, Cl, Br, and I) interactions in substituted benzanilides. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C601-C601.	0.3	0
62	Unusual anisotropic effects from 1,3-dipolar cycloadducts of 4-azidomethyl coumarins. <i>Journal of Heterocyclic Chemistry</i> , 2010, 47, 91-97.	1.4	8
63	Crystal structure of an intermolecular 2:1 complex between adenine and thymine. Evidence for both Hoogsteen and "quasi-Watson-Crick" interactions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3530-3533.	1.0	15
64	Synthesis, structure and DNA cleavage studies of coumarin analogues of tetrahydroisoquinoline and protoberberine alkaloids. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 3575-3580.	2.6	25
65	4-Azidomethyl-7-methyl-2-oxo-2H-chromene-6-sulfonyl azide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2780-o2780.	0.2	4
66	Directing role of functional groups in selective generation of C \cdots H \cdots I interactions: In situ cryo-crystallographic studies on benzyl derivatives. <i>CrystEngComm</i> , 2010, 12, 3112.	1.3	70
67	Effect of substitution on molecular conformation and packing features in a series of aryl substituted ethyl-6-methyl-4-phenyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylates. <i>CrystEngComm</i> , 2010, 12, 1205.	1.3	26
68	Proton NMR studies of dihalogenated phenyl benzamides: two-dimensional higher quantum methodologies. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 684-692.	1.1	6
69	In situ cryocrystallization of low melting chloro and bromo substituted anilines. <i>Journal of Molecular Structure</i> , 2009, 935, 156-160.	1.8	9
70	Apparent shortening of the Csp ³ -Csp ³ bond analysed via a variable-temperature X-ray diffraction study in racemic 1,1'-binaphthalene-2,2'-diyl diethyl bis(carbonate). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2009, 65, o222-o225.	0.4	3
71	Three-dimensional 3d \cdots 4f heterometallic polymers containing both azide and carboxylate as co-ligands. <i>Inorganica Chimica Acta</i> , 2009, 362, 1913-1917.	1.2	9
72	Crystal Structure of 5,6-Benzo-4-[(4-methyl)phenoxy]methyl]coumarin. <i>X-ray Structure Analysis Online</i> , 2009, 25, 53-54.	0.1	3

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73	4-Chloro-N-(3-chlorophenyl)benzamide. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2434-o2434.	0.2	1
74	Ethyl 4-(4-hydroxyphenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2502-o2502.	0.2	3
75	Ethyl 4-(4-chlorophenyl)-6-methyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2518-o2518.	0.2	4
76	2-(4-Chloro-3-nitrophenyl)-4-(4-chlorophenyl)-1,3-thiazole. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2611-o2612.	0.2	2
77	Microwave Synthesis and Photocatalytic Activity of Nano Lanthanide (Ce, Pr, and Nd) Orthovanadates. Industrial & Engineering Chemistry Research, 2008, 47, 6509-6516.	1.8	53
78	Anhydrous Adenine: Crystallization, Structure, and Correlation with Other Nucleobases. Crystal Growth and Design, 2008, 8, 1223-1225.	1.4	49
79	1,1'-Binaphthalene-2,2'-diyl hydrogen phosphate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o256-o256.	0.2	4
80	Bis(tert-butyl-3-oxobutanoato)dipyridinenickel(II) benzene solvate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m1604-m1604.	0.2	2