

# Rosica Nikolova

## List of Publications by Year in descending order

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92  
papers

658  
citations

687363

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docs citations

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1088  
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#	ARTICLE	IF	CITATIONS
1	From $\text{kr}\ddot{\text{A}}\text{hnkite}$ - to alluaudite-type of structure: novel method of synthesis of sodium manganese sulfates with electrochemical properties in alkali-metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22287-22299.	10.3	42
2	Combretastatin A-4 analogues with benzoxazolone scaffold: Synthesis, structure and biological activity. <i>European Journal of Medicinal Chemistry</i> , 2016, 120, 121-133.	5.5	40
3	Hepatotoxicity and antioxidant activity of some new N,N $\epsilon^2$ -disubstituted benzimidazole-2-thiones, radical scavenging mechanism and structure-activity relationship. <i>Arabian Journal of Chemistry</i> , 2018, 11, 53-69.	4.9	29
4	Lattice dynamics of the $\text{LiFeO}_2$ and $\text{LiFeO}$ phases of $\text{LiFeO}_2$	3.2	25
5	Crystal structure and properties of the copper(II) complex of sodium monensin A. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1419-1424.	3.5	24
6	Synthesis of ferrocene-based amido-phosphine ligands via highly diastereoselective ortho-lithiation and their application in Pd-catalyzed asymmetric allylic alkylations. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 970-979.	1.8	22
7	Cytisine as a scaffold for ortho-diphenylphosphinobenzenecarboxamide ligands for Pd-catalyzed asymmetric allylic alkylation. <i>Journal of Organometallic Chemistry</i> , 2015, 778, 10-20.	1.8	15
8	X-ray diffraction study of a $\text{Bi}_4\text{Ge}_3\text{O}_{12}$ crystal. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 138, 35-40.	3.5	14
9	4-Amino-3-nitro naphthalimides Structures and spectral properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 250, 92-98.	3.9	14
10	Synthesis of 1,3-aminonaphthols by diastereoselective Betti-type aminoalkylation of dihydroxy naphthalenes; diastereoselectivity, absolute configuration, and application. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 1453-1466.	1.8	14
11	1,2-Disubstituted Planar Chiral Ferrocene Derivatives from Sulfonamide-Directed <i>ortho</i> -Lithiation: Synthesis, Absolute Configuration, and Chiroptical Properties. <i>Organometallics</i> , 2021, 40, 578-590.	2.3	14
12	Synthesis of new racemic and optically active $\text{N}$ -phosphonoalkyl bicyclic amino acids via the kabachnik fields reaction as potential biologically active compounds. <i>Heteroatom Chemistry</i> , 2012, 23, 123-130.	0.7	13
13	Controlled Tautomeric Switching in Azonaphthols Tuned by Substituents on the Phenyl Ring. <i>ChemPhysChem</i> , 2015, 16, 649-657.	2.1	13
14	Raman study of phonons in $\text{CaMnO}_{12}$ : Effects of structural modulation and structural transition. <i>Physical Review B</i> , 2014, 89, .	3.2	12
15	Redox properties of alluaudite sodium cobalt manganese sulfates as high-voltage electrodes for rechargeable batteries. <i>Chemical Communications</i> , 2018, 54, 5466-5469.	4.1	12
16	Crystal structure of a new small-pore zirconosilicate $\text{Na}_2\text{ZrSi}_2\text{O}_7 \cdot \text{H}_2\text{O}$ and its relation to stoichiometrically and topologically similar compounds. <i>Solid State Sciences</i> , 2009, 11, 382-388.	3.2	11
17	Synthesis, growth, structural, thermal, optical properties of new metal-organic crystals: Methyltriphenylphosphonium iodide thiourea and methyltriphenylphosphonium iodide chloroform hemisolvate. <i>Journal of Crystal Growth</i> , 2013, 376, 41-46.	1.5	11
18	Highly efficient synthesis of chiral aminoalcohols and aminodiols with camphane skeleton. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 1426-1434.	1.8	11

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19	Anthracene-Derived Bis-Aminophosphonates: Crystal Structure, In Vitro Antitumor Activity, and Genotoxicity In Vivo. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 1535-1547.	1.6	11
20	Crystal structures of Mg <sup>2+</sup> , Ba <sup>2+</sup> and Cs <sup>+</sup> exchanged K <sup>+</sup> Na <sup>+</sup> ETS-4. Microporous and Mesoporous Materials, 2013, 165, 121-126.	4.4	11
21	Four cycloalkanespiro-4 <sup>2</sup> -imidazolidine-2 <sup>5</sup> -dithiones. Acta Crystallographica Section C: Crystal Structure Communications, 2006, 62, o211-o215.	0.4	10
22	Synthesis, growth and optical spectroscopy studies of BaBiBO <sub>4</sub> and CaBi <sub>2</sub> B <sub>2</sub> O <sub>7</sub> crystals. Applied Physics B: Lasers and Optics, 2010, 101, 185-192.	2.2	10
23	Phonon and magnon Raman scattering in CuB <sub>2</sub> O <sub>7</sub> . Physical Review B, 2013, 88, .	3.2	10
24	A microporous titanosilicate for selective killing of HeLa cancer cells. RSC Advances, 2013, 3, 8843.	3.6	10
25	Anti-enteroviral activity of new MDL-860 analogues: Synthesis, in vitro/in vivo studies and QSAR analysis. Bioorganic Chemistry, 2019, 85, 487-497.	4.1	10
26	Controlled shift in the tautomeric equilibrium of 4-((phenylimino)methyl)naphthalen-1-ol. Journal of Molecular Structure, 2013, 1036, 267-273.	3.6	9
27	Synthesis and transformations of polysubstituted diastereomeric 5-oxomorpholin-2-carboxylic acids. Comptes Rendus Chimie, 2014, 17, 420-430.	0.5	9
28	Fast and efficient direct conversion of 2-aminopyridine into 2,3-disubstituted imidazo[1,2-a]pyridines. Arkivoc, 2013, 2012, 282-294.	0.5	9
29	Structures of molecular adducts of inorganic salts. II. Ca(ReO <sub>4</sub> ) <sub>2</sub> · Urea · H <sub>2</sub> O. Zeitschrift für Kristallographie, 1995, 210, 319-322.	1.1	8
30	Conformational behaviour of 3-methyl-4-(4-methylbenzoyl)-1-phenyl-pyrazol-5-one: a sudden story of three desmotropes. RSC Advances, 2015, 5, 73859-73867.	3.6	8
31	Synthesis of ferrocenylmethylidene and arylidene substituted camphane based compounds as potential anticancer agents. New Journal of Chemistry, 2017, 41, 9103-9112.	2.8	8
32	Microwave assisted synthesis and X-ray structure of a novel anthracene-derived aminophosphonate. Enantioseparation of two $\pm$ -aminophosphonates and genotoxicity in vivo. Phosphorus, Sulfur and Silicon and the Related Elements, 2017, 192, 403-409.	1.6	8
33	Crystal Chemistry and Properties of Elpidite and Its Ag-Exchanged Forms. Minerals (Basel.) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlock 10 Tf 50		
34	Structures of molecular adducts of inorganic salts. I. Pb(ReO <sub>4</sub> ) <sub>2</sub> · Urea · H <sub>2</sub> O and Ba(ReO <sub>4</sub> ) <sub>2</sub> · 3 Urea. Zeitschrift für Kristallographie - Crystalline Materials, 1995, 210, .	0.8	7
35	2-(3-Benzoyl-1-pyridinio)-3,4-dioxocyclobutenolate. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, o213-o215.	0.4	7
36	Synthesis and crystal structure of a Pt(II) complex with 3-amino-5-methyl-5-phenylhydantoin. Journal of Coordination Chemistry, 2007, 60, 1701-1707.	2.2	7

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37	Structure, conformation and hydrogen bonding of two amino-cycloalkanespiro-5-hydantoins. <i>Open Chemistry</i> , 2009, 7, 14-19.	1.9	7
38	Synthesis and anti-enterovirus activity of new analogues of MDL-860. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 4540-4543.	2.2	7
39	Neodymium Diselenite Selenious Acid Dihydrate: Structure and Conformation of the Se <sub>2</sub> O <sub>5</sub> Group. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1998, 54, 699-701.	0.4	6
40	Growth and characterization of La <sub>2</sub> CoMnO <sub>6</sub> crystals doped with Pb. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 172, 80-84.	3.5	6
41	Temperature-induced phase transformations of the small-pore zirconosilicate Na <sub>2</sub> ZrSi <sub>2</sub> O <sub>7</sub> ·H <sub>2</sub> O. <i>Solid State Sciences</i> , 2011, 13, 1187-1190.	3.2	6
42	Functionalized organolithium reagents in the synthesis of chiral ligands for catalytic enantioselective addition of diethylzinc to aldehydes. <i>Polyhedron</i> , 2012, 45, 126-143.	2.2	6
43	Stereoselective Lewis acid promoted Kharasch-type addition of 3-bromoacetyl-2-oxazolidinones to norbornadiene. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 1085-1089.	1.8	5
44	2-{3-[(E)-(3,4-Dimethoxyphenyl)ethenyl]-5,5-dimethylcyclohex-2-enylidene}malononitrile. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o550-o552.	0.2	5
45	Lattice distortions in a crystal caused by doping with copper. <i>Solid State Communications</i> , 2009, 149, 1616-1618.	1.9	5
46	Characterization of nanosized Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> . <i>Materials Research Bulletin</i> , 2011, 46, 2125-2130.	5.2	5
47	Raman spectroscopy and lattice-dynamical calculations of Sc <sub>3</sub> CrO <sub>6</sub> single crystals. <i>Physical Review B</i> , 2012, 85, 104411.	3.2	5
48	Synthesis and Structural Characterization of Spiro(flourene-9,4-imidazolidine)-2,5-dione and (9H-Flourene-9-yl)urea. <i>Journal of Chemical Crystallography</i> , 2012, 42, 566-572.	1.1	5
49	Molecular Adducts of Inorganic Salts. VI. The Dimorphism of Cd(ReO <sub>4</sub> ) <sub>2</sub> ·tu (tu = Thiourea). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1996, 52, 1935-1939.	0.4	4
50	[(4,4-Dimethyl-2-oxo-1,3-oxazolidin-3-yl)methyl]phosphonic acid. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2006, 62, o661-o662.	0.4	4
51	3-Carboxyphenylboronic acid-theophylline (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2320-o2320.	0.2	4
52	Switching azonaphthols containing a side chain with limited flexibility. Part 1. Synthesis and tautomeric properties. <i>Dyes and Pigments</i> , 2012, 92, 1266-1277.	3.7	4
53	Spontaneous conversion of <i>O</i> -tosylates of 2-(piperazin-1-yl)ethanols into chlorides during classical tosylation procedure. <i>Royal Society Open Science</i> , 2019, 6, 181840.	2.4	4
54	Estrone derived 2-naphthol analogue in the diastereoselective one-pot Betti-condensation. <i>Molecular Diversity</i> , 2020, 24, 1343-1353.	3.9	4

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55	Three-Dimensional (3D) Microporous Iron Silicate with an Imandrite Type of Structure. <i>Inorganic Chemistry</i> , 2021, 60, 4563-4568.	4.0	4
56	3-[2-(5-tert-Butyl-1,2-oxazol-3-yl)hydrazinylidene]chroman-2,4-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o258-o258.	0.2	4
57	Zwitterionic 2-guanidinium-1-aminocarboxylate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o447-o449.	0.2	3
58	Dimorphism in 3-aminocyclohexanespiro-5-hydantoin. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, o524-o526.	0.4	3
59	Sodium hydrogensquarate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m1359-m1361.	0.2	3
60	Phosphoamide $\pi$ -modified p-tert-butyl calix[4]arene and its sodium complexes. <i>Polyhedron</i> , 2006, 25, 2261-2268.	2.2	3
61	Growth and characterization of large $\text{La}_{1-x}\text{Pb}_x\text{MnO}_{3+\delta}$ ( $x=0.32\text{--}0.35$ ) crystals. <i>Crystal Research and Technology</i> , 2009, 44, 1192-1196.	1.3	3
62	(4-Carbamoylphenyl)boronic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o1273-o1273.	0.2	3
63	Growth and characterization of $\text{Pb}_3\text{Ni}_{1.5}\text{Mn}_{5.5}\text{O}_{15}$ single crystal. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 156001.	1.8	3
64	Synthesis, characterization, and crystal structure of 2-iodo-3,4,5-trimethoxybenzoic acid. <i>Journal of Molecular Structure</i> , 2013, 1034, 318-324.	3.6	3
65	Betti Bases from 4-(3-pyridazo)naphthol: Synthesis, Coordination Behaviour and Unusual Substitution Reactions. <i>ChemistrySelect</i> , 2018, 3, 12017-12021.	1.5	3
66	Synthesis, crystal structure and biological activity screening of novel N-( $\pm$ -bromoacyl)- $\pm$ -amino esters containing valyl moiety. <i>Acta Chimica Slovenica</i> , 2015, 62, 689-699.	0.6	3
67	New Heterocyclic Combretastatin A-4 Analogs: Synthesis and Biological Activity of Styryl-2(3H)-benzothiazolones. <i>Pharmaceuticals</i> , 2021, 14, 1331.	3.8	3
68	(R)-2-[(2-Ethoxy-3,4-dioxocyclobut-1-en-1-yl)amino]-3-phenylpropanamide hemihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, o634-o636.	0.2	2
69	[1-(Hydroxyethylammonio)propyl]phosphonate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o134-o136.	0.2	2
70	6-O-Acetylcodeine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2582-o2584.	0.2	2
71	3-Aminocyclohexanespiro-5-hydantoin-phenylboronic acid (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o3887-o3889.	0.2	2
72	Synthesis and Characterization of Partially Substituted at Lower Rim Phosphorus Containing Calix(4)arenes. <i>Supramolecular Chemistry</i> , 2007, 19, 447-457.	1.2	2

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73	The pyridinium-betaine of squaric acid. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3259-o3259.	0.2	2
74	1,2,3,4-Tetrahydroisoquinolinium hydrogensquarate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3353-o3354.	0.2	2
75	Effect of Doping on the Structure and Raman Spectra of Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> . , 2010, , .		2
76	Synthesis and structural transformations of the "glaserite"-type zirconosilicate Na <sub>3</sub> ·xH <sub>2</sub> O·yH <sub>2</sub> O. Materials Research Bulletin, 2012, 47, 2324-2331.	5.2	2
77	Crystalline adducts of urea with magnesium iodide. Journal of Molecular Structure, 2021, 1224, 129009.	3.6	2
78	Effect of urea on arrangement of novel Mg(II) perchlorate crystal structures and their optical properties: Experimental and theoretical insight. Journal of Solid State Chemistry, 2022, 312, 123263.	2.9	2
79	(3R,4R)-3-(2-Furyl)-2-phenethyl-4-(pyrrolidin-1-ylcarbonyl)-3,4-dihydroisoquinolin-1(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o2248-o2250.	0.2	1
80	Codeinone. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o255-o257.	0.2	1
81	Isoquinolin-1(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o4751-o4751.	0.2	1
82	Temperature-induced phase transformations of the "glaserite"-type zirconosilicate Na <sub>3</sub> HZrSi <sub>2</sub> O <sub>8</sub> ·0.4H <sub>2</sub> O. Materials Research Bulletin, 2013, 48, 2029-2033.	5.2	1
83	Synthesis of 4-acetyl-2(3 <i>H</i> )-benzothiazolone: Sulfur bioisostere of benzoxazolone allelochemicals. Phosphorus, Sulfur and Silicon and the Related Elements, 2017, 192, 905-910.	1.6	1
84	Surface Properties of 1DTiO <sub>2</sub> Microrods Modified with Copper (Cu) and Nanocavities. Nanomaterials, 2021, 11, 324.	4.1	1
85	Acylpyrazolones possessing a heterocyclic moiety in the acyl fragment: intramolecular vs. intermolecular zwitterionic structures. New Journal of Chemistry, 2022, 46, 1080-1086.	2.8	1
86	4-Phenylpyridinium 3-carboxy-2,3-dihydroxypropanoate dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2511-o2511.	0.2	0
87	A new monoclinic polymorph of dichloridotetrakis(dimethyl sulfoxide)ruthenium(II). Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m1023-m1023.	0.2	0
88	(R)-Methyl {[2-carboxybicyclo[2.2.2]octan-1-yl]ammonio}methyl}phosphonate dichloromethane 0.25-solvate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2152-o2153.	0.2	0
89	Synthesis, Crystal Structure and Cytotoxic Properties of Nitrocombretastatins (E)- and (Z)-5-(4-Methoxy-3-nitrostyryl)-1,2,3-trimethoxybenzene. Journal of Chemical Crystallography, 2016, 46, 105-112.	1.1	0
90	(±)-Ethyl 6,7-dimethoxy-1-(1 <i>H</i> -pyrrol-2-yl)-1,2,3,4-tetrahydroisoquinoline-2-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1796-o1796.	0.2	0

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91	Ammonium hydrogen (RS)-[(5-methyl-2-oxo-1,3-oxazolidin-3-yl)methyl]phosphonate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o6-o6.	0.2	0
92	Indium silicate with an imandrite-type structure. RSC Advances, 2022, 12, 12531-12536.	3.6	0