

Publications

	Authors	Title	Name of Journal	Volume	Page	Year
78.	M. Kumar, H. P. Nayek	Syntheses and Exploration of the Catalytic Activities of Organotin(IV) Compounds	<i>Dalton Trans.</i>	53	9827	2024
77.	R. Vinayak, D. Basu, A. Bhowmick, A. Ghosh, H. P. Nayek	Imine-functionalized Organotin(IV) Carboxylates: Syntheses, Structures and Antibacterial activities	<i>Inorg. Chim. Acta</i>	568	122093	2024
76.	D. Basu, B. Ghosh, D. Srivastava, N. Patra, H. P. Nayek	Mononuclear Organogermanium(IV) Catalysts for [3+2] Cycloaddition Reaction	<i>Dalton Trans.</i>	53	5648	2024
75.	Kajal, R. Vinayak, C. J. García, S. Benmansour, H. P. Nayek	Quadruple Bridged-Carbonate Supported Dodecanuclear [Ni ₈ Ca ₄] Coordination Cluster	<i>New. J. Chem.</i>	48	3239	2024
74.	A. Harinath, H. Karmakar, D. A. Kisan, H. P. Nayek , T. K. Panda	NHC–Zn alkyl catalyzed cross-dehydrocoupling of amines and silanes	<i>Org. Biomol. Chem.</i>	21	4237	2023
73.	A.Sarkar, D. Basu, C. J. Gómez-García, H. P. Nayek	Field-Induced SMM Behaviour of Tetranuclear Coordination Clusters with a Cubane [Ni ₄ O ₄] Core	<i>Eur. J. Inorg. Chem.</i>	26(2)	e202200565	2023
72.	D. Basu and H. P. Nayek	Bis(catecholato)germane: An Effective Catalyst for Friedel-Crafts Alkylation Reaction	<i>Dalton Trans.</i>	51	10587-10594	2022
71.	R. Kumar, P. Rawal, I. Banerjee, H. P. Nayek , P. Gupta and T. K. Panda	Catalytic Hydroboration and Reductive Amination of Carbonyl Compounds by HBpin using a Zinc Promoter	<i>Chem. Asian. J.</i>	17(5)	e202200013	2022
70.	A. Sarkar, S. Jana and H. P. Nayek	A Pentanuclear Er(III) Coordination Cluster as a Catalyst for Selective Synthesis of 1,2-disubstituted Benzimidazoles	<i>Appl. Organometal. Chem.</i>	35(6)	e6200	2021
69.	S. Ghosh, A. Sarkar, S. Chatterjee and H. P. Nayek	Elucidation of selective adsorption study of Congo red using new Cadmium(II) metal-organic frameworks: Adsorption kinetics, isotherm and thermodynamics	<i>J. Solid State Chem.</i>	296	121929-121940	2021
68.	A. Sarkar, P. P. Mondal and H. P. Nayek	One-Pot and Solvent-Free Hantzsch Condensation Reaction Catalyzed by Mononuclear Dy(III) Complex	<i>Chemistry Select</i>	5	12302-12306	2020
67.	S. Mondal, N. Patra, H. P. Nayek S. K. Hira, S. Chatterjee and S. Dey	Unusual absence of FRET in triazole bridged coumarin-hydroxyquinoline, an active sensor forHg ²⁺ +detection	<i>Photochem. Photobiol. Sci.</i>	19	1211-1221	2020
66.	K. Bano, S. Anga, A. Jain, H. P. Nayek and T. K. Panda	Hydroamination of isocyanates and isothiocyanates by alkaline earth metal initiators supported by bulky iminopyrrolyl ligand	<i>New J. Chem</i>	44	9419-9428	2020

Publications

65.	S. Ghosh, C.K. Maity, G. C. Nayak and H. P. Nayek	A cobalt(II) metal-organic framework featuring supercapacitor application	<i>J. Solid State Chem.</i>	282	121093-121098	2020
64.	R. Vinayak and H. P. Nayek	Sensing of Cu(II) Ion by Organotin Anchored Keto-enamine ligands	<i>New J. Chem.</i>	43	16050-16057	2019
63.	S. Ghosh, A. D. Adhikari, J. Nath, G. C. Nayak and H. P. Nayek	Lanthanide (III) Metal-Organic Frameworks: Syntheses, Structures and Supercapacitor Application	<i>Chemistry Select</i>	4	10624-10631	2019
62.	A. Sarkar, C. J. G. García, S. Benmansour and H. P. Nayek	Trinuclear lanthanide coordination clusters: single-molecule-magnetic behavior and catalytic activity in the friedel-crafts alkylation reaction	<i>ChemPlusChem</i>	84	974-980	2019
61.	R. Vinayak and H. P. Nayek	Organotin Metalloligands for Selective Sensing of Metal Ions	<i>New J. Chem.</i>	43	DOI: 10.1039/C9NJ00944B	2019
60.	S. Pal, K. Dey, S. Benmansour, C. J. G. García, and H. P. Nayek	Syntheses, Structures and Magnetic Properties of Cyano-Bridged One-Dimensional $\text{Ln}^{3+}\text{-Fe}^{3+}$ ($\text{Ln} = \text{La}, \text{Dy}, \text{Ho}$ and Yb) Coordination Polymers	<i>New J. Chem.</i>	43	6228-6233	2019
59.	A. Harinath, J. Bhattacharjee, A. Sarkar, H. P. Nayek and T. K. Panda	Ring Opening Polymerization and Copolymerization of Cyclic Esters Catalyzed by Group 2 Metal Complexes Supported by Functionalized P–N Ligands	<i>Inorg. Chem.</i>	57	2503-2516	2018
58.	J. Bhattacharjee, A. Harinath, I. Banerjee, H. P. Nayek and T. K. Panda	Highly Active Dinuclear Titanium(IV) Complexes for the Catalytic Formation of a Carbon-Heteroatom Bond	<i>Inorg. Chem.</i>	57	12610-12623	2018
57.	A. Harinath, J. Bhattacharjee, H. P. Nayek and T. K. Panda	Alkali metal complexes as efficient catalysts for hydroboration and cyanosilylation of carbonyl compounds	<i>Dalton Trans.</i>	47	12613-12622	2018
56.	S. Pal, S. Maiti and H. P. Nayek	A Three-dimensional (3D) Manganese (II) Coordination Polymer: Synthesis, Structure and Catalytic Activities	<i>Appl. Organometal. Chem.</i>	32	e4447	2018
55.	M. Mahato, K. V. Hecke and H. P. Nayek	Two Mononuclear Cobalt(III) Complexes Exhibiting Phenoxazinone Synthase Activity	<i>Appl. Organometal. Chem.</i>	32	e4336	2018
54.	A. Harinath, J. Bhattacharjee, A. Sarkar, H. P. Nayek and T. K. Panda	Ring Opening Polymerization and Copolymerization of Cyclic Esters Catalyzed by Group 2 Metal Complexes Supported by Functionalized P–N Ligands	<i>Inorg. Chem.</i>	57(5)	2503-2516	2018
53.	R. Vinayak, D. Dey, D. Ghosh, D. Chattopadhyay, A. Ghosh and H. P. Nayek	Schiff Base Supported Mononuclear Organotin(IV) Complexes: Syntheses, Structures and Fluorescence Cell Imaging	<i>Appl. Organometal. Chem.</i>	32	e4122	2018
52.	M. Mahato, S. Mukherji, K. V. Hecke, K. Harms,	Mononuclear Homoleptic Organotin(IV) Dithiocarbamates:	<i>J. Organomet. Chem.</i>	853	27-34	2017

Publications

	A. Ghosh and H. P. Nayek	Syntheses, Structures and Antimicrobial activities				
51.	S. Das, S. Anga, A. Harinath, H. P. Nayek and T. K. Panda	Synthesis and Structure of Unprecedented Samarium Complex with Bulky Bis-iminopyrrolyl Ligand via Intramolecular C=N Bond Activation	<i>Z. Anorg. Allg. Chem.</i>	643	2144-2148.	2017
50.	C. Kumari, D. Sain, A. Kumar, H. P. Nayek , S. Debnath, P. Saha and S. Dey	A Non-Perilous Coumarin-Based Ratiometric Probe for 'In Vitro' Detection of Cu through Cell Imaging Technique	<i>Chemistry Select</i>	2	8270-8277.	2017
49.	S. Saha, A. Sarkar, S. Das, T. K. Panda, K. Harms and H. P. Nayek	The Missing Link in Ni(II)-Ln(III) System: Design and Synthesis of a Dinuclear [Ni ₂] and Three Pentanuclear [Ni ₃ Ln ₂] (Ln = La, Ce, Eu) Complexes of a Schiff Base Ligand	<i>Chemistry Select</i>	2	7865-7872	2017
48.	J. Bhattacharjee, A. Harinath, H. P. Nayek , A. Sarkar, and T. K. Panda	Highly Active and Iso-selective Catalysts for ROP of Cyclic Esters Using Group 2 Metal Initiators	<i>Chem. Eur. J.</i>	23	9319-9331.	2017
47.	S. Pal, A. Tarafdar, A. Sinha, A. Bhunia, K. Harms and H. P. Nayek	Mononuclear Metal (II) Complexes of a Bis(organoamido)phosphate Ligand with Antimicrobial Activities against <i>Escherichia coli</i>	<i>Appl. Organometal. Chem.</i>	31	e3821	2017
46.	C. Kumari, D. Sain, A. Kumar, H. P. Nayek , S. Debnath, S. Saha and S. Dey	A bis-hydrazone derivative of 2,5-furandicarboxaldehyde with perfect hetero-atomic cavity for selective sensing of Hg(II) and its intracellular detection in living HeLa S3 cell	<i>Sensors and Actuators B: Chemical</i>	243	243, 1181-1190	2017
45.	K. Naktode, S. Das, H. P. Nayek , and T. K. Panda	Syntheses and Structures of Imidazolin-2-iminato Ligand Supported Titanium(IV) Aryloxo Complexes	<i>Inorg. Chim. Acta</i>	456	24-33	2017
44.	M. Mahato, D. Mondal and H. P. Nayek	Syntheses, Structures and Phenoxazinone Synthase Activities of Two Co(III) Complexes	<i>Chemistry Select</i>	1 (20)	6777-6782	2016
43.	R. Vinayak, A. Harinath, C. J. G-García, T. K. Panda, Samia Benmansour, and H. P. Nayek	Solvent Modulated Assembly of Two Ni(II) Complexes: Syntheses, Structures and Magnetic Properties	<i>Chemistry Select</i>	1 (20)	6532-6539	2016
42.	S. Anga, I. Banerjee, H. P. Nayek and T. K. Panda	Alkali metal complexes having sterically bulky bis-iminopyrrolyl ligands – control of dimeric to monomeric complexes	<i>RSC Advances</i>	6	80916-80923	2016
41.	S. Anga, J. Bhattacharjee, I. Banerjee, H. P. Nayek and T. K. Panda	Calcium Complexes Having Different Amidinate Ligands - Synthesis and Structural Diversity	<i>Chemistry Select</i>	1 (9)	2014-2020	2016

Publications

40.	S. Saha, A. Harinath, T. K. Panda and H. P. Nayek	Schiff-base Supported Heterobicyclic Monomeric Boronates	<i>J. Organomet. Chem.</i>	818	37-41	2016
39.	D. Sain, C. Kumari, A. Kumar, H. P. Nayek and S. Dey	Lead ion induced chemodosimeter approach of a tripodal hydroxyl-quinoline based phospho-ester through P–O bond cleavage	<i>Dalton Trans.</i>	45	9187-9192	2016
38.	S. Saha, S. Jana, S. Gupta, A. Ghosh and H. P. Nayek	Syntheses, Structures and Biological Activities of Square Planar Ni(II), Cu(II) Complexes	<i>Polyhedron</i>	107	183-189	2016
37.	K. Naktode, S. Das, J. Bhattacharjee, H. P. Nayek , T. K. Panda	Imidazolin-2-iminato Ligand Supported Titanium Complexes as Catalysts for the Synthesis of Urea Derivatives	<i>Inorg. Chem</i>	55 (3)	1142–1153	2016
36.	K. Naktode, S. Das, A. Kundu, H. P. Nayek , T. K. Panda	Synthesis and Solid State Structures of Chalcogenide Compounds of Imidazolin-2-ylidene-1,1 Diphenyl-phosphinamine	<i>J. Chem. Sci.</i>	128(3)	373-382.	2016
35.	S. Saha, P. P. Jana, C. J. Gómez-García, K. Harms and H. P. Nayek	Co-crystallization of Keggin Type Polyoxometalates [HL] ₃ [PW ₁₂ O ₄₀] and [Ln(DMF) ₈][PW ₁₂ O ₄₀] (Ln = La, Dy, Yb) (L = N-(2-hydroxyphenyl)-3-methoxysalicylideneamine): Syntheses, Structures and Magnetic Properties	<i>Polyhedron</i>	104	58-62	2016
34.	J. Bhattacharjee, S. Das, T. D. N. Reddy, H. P. Nayek , B. S. Mallik and T. K. Panda	Alkali Metal and Alkaline Earth Metal Complexes with the Bis(borane-diphenylphosphanyl)amido Ligand – Synthesis, Structures, and Catalysis for Ring-Opening Polymerization of ϵ -Caprolactone	<i>Z. Anorg. Allg. Chem.</i>	Online published. DOI: 10.1002/zaac.201500593		2015
33.	M. Saha, M. Das, R. Nasani, I. Choudhuri, M. Yousufuddin, H. P. Nayek , M. Shaikh, B. Pathak and S. Mukhopadhyay	Targeted water soluble copper–tetrazolate complexes: interactions with biomolecules and catecholase like activities	<i>Dalton Trans.</i>	44	20154-20167	2015
32.	M. Mahato, P. P. Jana, K. Harms and H. P. Nayek	Lanthanide (III) Morpholine 4-Dithiocarbamate Complexes: Pr(III) Derivative Shows First Example of Polymeric Lanthanide(III) Dithiocarbamate	<i>RSC Advances</i>	5	62167-62172	2015
31.	S. Pal, A. Bhunia, P. P. Jana, S. Dey, J. Möllmer, C. Janiak, H. P. Nayek	A Microporous La-Metal-Organic Framework with Large Surface Area	<i>Chem. Eur. J.</i>	21 (7)	2789-2792	2015

Publications

30.	K. Naktode, T. D. N. Reddy, H. P. Nayek , B. S. Mallik and T. K. Panda	Heavier group 2 metal complexes with a flexible scorpionate ligand based on 2-mercaptopyridine	<i>RSC Advances</i>	5	51413-51420	2015
29.	S. Dey, A. Kumar, D. Sain, H. P. Nayek , A. Hazra, S. Goswami, S. Jana, H. Fun and S. Isik	Studies on Crystal Engineering Networks of Amidopyridine N-oxides in Solid State by NMR, Mass and X-ray Techniques	<i>Letters in Organic Chemistry</i>	12(8)	584-590	2015
28.	K. S. Naktode, A. Kundu, S. Saha, H. P. Nayek , T. K. Panda,	Nickel(II) Complexes Having Imidazol-2-ylidene-N'-phenylurea Ligand in the Coordination Sphere - Syntheses and Solid State Structures	<i>J. Chem. Sci.</i>	127 (8)	1397-1404	2015
27.	K. S. Naktode, J. Bhattacharjee, H. P. Nayek , T. K. Panda	Area Imidazol-2-ylidene-N'-phenylureate Ligands in Alkaliand Alkaline Earth Metal Coordination Sphere- Heterocubane Core to Polymeric Structural Motif Formation	<i>Dalton Trans.</i>	44	7458-7469	2015
26.	K. Naktode, S. D. Gupta, J. Bhattacharjee, S. K. Jana, H. P. Nayek , B. S. Mallik, T. K. Panda	Functionalization of Imidazolin-2-imine to Corresponding Phosphinamine, Chalcogenide (O, S, Se, Te) and Borane Compounds	<i>Aust. J. Chem.</i>	68, 1,	127-136	2015
25.	M. Mahato, D. Dey, S. Pal, S. Saha, A. Ghosh, K. Harms, H. P. Nayek ,	Syntheses, Structures, Optical Properties and Biological activities of Bimetallic Complexes	<i>RSC Advances</i>	4	64725-64730	2014
24.	S. Pal, P. P. Jana, H. P. Nayek	Mononuclear Complexes and Coordination Polymer of 2-Pyridyl (NH ² Py) Functionalized P(V) Ligand	<i>RSC Advances</i>	4	26902-26906	2014
23.	S. Saha, S. Pal, C. J. Gómez-García, Juan M. Clemente-Juan, K. Harms, H. P. Nayek	A Ferromagnetic Tetranuclear Nickel(II) Schiff-base Complex with an Asymmetric Ni ₄ O ₄ Cubane Core	<i>Polyhedron</i>	74	1-5	2014
22.	S. Saha, R. K. Kottalanka, P. Bhowmik, S. Jana, K. Harms, T. K. Panda, S. Chattopadhyay, H. P. Nayek	Synthesis and Characterization of a Nickel(II) Complex of 9-Methoxy-2,3-dihydro-1,4-Benzoxazepine Derived from a Schiff Base Ligand and Its Ligand Substitution Reaction	<i>J. Mol.Struc</i>	1061	26-31	2014
21.	K. Naktode, S. Anga, R. K. Kottalanka, H. P. Nayek , T. K. Panda	Reaction of Sterically Congested NHC–Zn(CH ₂ CH ₃) ₂ with Substituted Phenols Leading to Zinc Phenolate Complexes	<i>J. Coord. Chem</i>	67	236-248	2014
20.	K. Naktode, J. Bhattacharjee, S. D. Gupta, H. P. Nayek , B. S. Mallik, T. K. Panda	Unprecedented Calcium Metalla-macrocyclic Having Phosphinoselenoic Amide and Diphenylphosphinate in the Coordination Sphere	<i>Z. Anorg. Allg. Chem.</i>	640	994-999	2014

Publications

19.	S. Saha, R. K. Kottalanka, T. K. Panda, K. Harms, S. Dehnen, H. P. Nayek	Syntheses and Characterization and Reactivity of Lewis Acid-Base Adducts based on B-N Dative Bonds	<i>J. Organomet. Chem.</i>	745-746	329-334	2013
18.	R. K. Kottalanka, S. Anga, K. Naktode, P. Laskar, H. P. Nayek , T. K. Panda	Amidophosphine-Borane Complexes of Alkali Metal and Heavier Alkaline Earth Metals-Syntheses and Structural Studies	<i>Organometallics</i>	32(16)	4473-4482	2013
17.	R. K. Kottalanka, K. Naktode, S. Anga, H. P. Nayek , T. K. Panda	Heavier Alkaline Earth Metal Complexes with Phosphinoselenic Amides: Evidence of Direct M-Se Contact (M = Ca, Sr, Ba)	<i>Dalton Trans.</i>	42	4947-4956	2013
16.	S. Nayak, H. P. Nayek , C. Pietzonka, G. Novitchi, S. Dehnen	A Series of Three-Dimensional Lanthanide MOFs: Reversible Structural Changes Controlled by Solvent Desorption-Adsorption and Magnetic Properties	<i>J. Mol. Struct.</i>	1004	82-87	2011
15.	H. P. Nayek , N. Arleth, I. Trapp, M. Löble, P. Oña-Burgos, M. Kuzdrowska, Y. Lan, A. K. Powell, F. Breher, P. W. Roesky	Synthesis and Characterization of Radical and Dianionic α -Iminopyridines	<i>Chem. Eur. J.</i>	17 (39)	10814-10819	2011
14.	A. Lühl, H. P. Nayek , S. Blechert, P. W. Roesky	Zinc-Zinc Bonded Decamethyldizincocene $Zn_2Cp^*_2$ as Catalyst for the Inter- and Intramolecular Hydroamination Reaction	<i>Chem. Commun.</i>	47	8280-8282	2011
13.	P. Bhowmik, H. P. Nayek , M. Corbella, N. Aliaga-Alcalde, S. Chattopadhyay	Synthesis, Structure and Magnetic Properties of Mono- and Polynuclear Manganese(III) azide Complexes with Tetradentate N_2O_2 Donor Schiff base	<i>Dalton Trans.</i>	40	7916-7926	2011
12.	S. Nayak, H. P. Nayek , S. Dehnen, A. K. Powell, J. Reedijk	Trigonal Propeller-shaped $Mn^{III}_3M^{II}Na$ Complexes (M = Mn, Ca): Structural and Functional Models for the Dioxygen Evolving Centre of PSII	<i>Dalton Trans.</i>	40	2699-2702	2011
11.	H. P. Nayek , A. Lühl, S. Schulz, R. Köppe, P. W. Roesky	Aminotroponimate Zinc(I) Complexes: Syntheses and Spectroscopic Analyses	<i>Chem. Eur. J.</i>	17 (6)	1773-1777	2011
10.	H. P. Nayek , W. Massa, S. Dehnen	Presence or Absence of a Central Se Atom in Silverselenide Clusters with Halite-Topology: Synthesis and Properties of $[(Ph_3PAg)_8Ag_6(\mu_6-Se)_1-x/2(SePh)_{12}]^{x+}$ (x = 0, 1; R = Ph, Cy)	<i>Inorg. Chem.</i>	49 (1)	145-14	2010
9.	Z. Lin, H. P. Nayek , S. Dehnen	Structural Transformation of Three-Dimensional Bimetallic Phosphites Containing Corner-Sharing 4-Ring Chains	<i>Z. Anorg. Allg. Chem.</i>	635	2391-2395	2009

Publications

8.	H. P. Nayek, G. Hilt, S. Dehnen	Synthesis and Characterization of Ferrocene-Bridged bis[tris(arylselenolato)-stannyl] Compounds	<i>Eur. J. Inorg. Chem.</i>	28	4205-4208	2009
7.	Z. Lin, H. P. Nayek, S. Dehnen	Flux synthesis of three-dimensional open-framework zinc phosphite and manganese phosphite-oxalate with 12-ring channels	<i>Microporous and Mesoporous Materials</i>	126	95-100	2009
6.	S. Biswas, M. Grzywa, H. P. Nayek, S. Dehnen, I. Senkowska, S. Kaskel, D. Volkmer	A Cubic Coordination Framework Constructed from Benzobistriazolate Ligands and Zinc Ions having Selective Gas Sorption Properties	<i>Dalton Trans.</i>	33	6487-6495	2009
5.	H. P. Nayek, Z. Lin, S. Dehnen	Synthesis, Crystal Structures and Properties of $[\text{SnS}_2 \cdot \text{en}]_x$ and $[\text{enH}]_4[\text{Sn}_2\text{S}_6] \cdot \text{en}$	<i>Z. Anorg. Allg. Chem.</i>	635	1737-1740	2009
4.	H. P. Nayek, H. Niedermeyer, S. Dehnen	Synthesis and Structure of a Tetranuclear Palladium Chalcogenolate Acetate Complex $[\text{Pd}_4(\text{SePh})_4(\text{OOCCH}_3)_4]$: An Experimental and Theoretical Study	<i>Dalton Trans.</i>	21	4208-4212	2009
3.	Z. Lin, H. P. Nayek, S. Dehnen	Transformation of a Layered Zinc Phosphite to a Three-Dimensional Open-Framework Structure with Intersecting 16- and 12-Ring Channels	<i>Inorg. Chem.</i>	48 (8)	3517-3519	2009
2.	H. P. Nayek, H. Niedermeyer, S. Dehnen	Preparation and Conformation of Organo-Bridged Bis[tris(arylchalcogenolato)tin] Compounds: An Experimental and Quantum Chemical Study	<i>Z. Anorg. Allg. Chem.</i>	634	2805-2810	2008
1.	H. P. Nayek, W. Massa, S. Dehnen	A Heterometallic, Heterovalent $\text{Cu}^{\text{I}}/\text{Sn}^{\text{II/IV}}/\text{S}$ Cluster with an Unprecedented Cu_4Sn Core and Stannacyclopentane Units	<i>Inorg. Chem.</i>	47 (20)	9146-9148	2008