

# Gotzone Barandika

## List of Publications by Year in descending order

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64  
papers

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236912

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docs citations

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times ranked

1852  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dicubane-Like Tetrameric Nickel(II) Azido Complex. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 344-347.	13.8	112
2	Crystal Structure and Spectroscopic and Magnetic Properties of the Manganese(II) and Copper(II) Azido-Tetramethylammonium Systems. <i>Inorganic Chemistry</i> , 1999, 38, 4647-4652.	4.0	98
3	Structural Analysis and Magnetic Properties of the 1D and 3D Compounds [Mn(dca) <sub>2</sub> nbipym] (M = Mn, Co, Ni); Tj ETQq1 1 0.784314 rgBT / Overlock 10	4.0	91
4	Dicubane-like Tetrameric Cobalt(II)-Pseudohalide Ferromagnetic Clusters. <i>Inorganic Chemistry</i> , 2001, 40, 4550-4555.	4.0	90
5	Weak M(II)-Azido-4,4'-Bipy Ferromagnets Based on Unusual Diamondoid (M = Mn) and 2D Arrays (M = Co, Ni); Tj ETQq1 1 0.784314 rgBT / Overlock 10	4.0	88
6	Synthesis and magnetostructural characterization of two ferromagnetic nickel(II) dimers. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 2971-2976.	1.1	58
7	Structural analysis and magnetic properties of the 1-D compounds [M(NCS) <sub>2</sub> (bpa) <sub>2</sub> ] [M = Fe, Co, Ni and Cu]; Tj ETQq1 1 0.784314 rgBT / Overlock 10	1.1	55
8	Structural analysis and magnetic properties of the 2-D compounds [M(N <sub>3</sub> ) <sub>2</sub> (bpa)] <sub>n</sub> (M = Mn, Co or Ni); Tj ETQq0 0 0 55 rgBT / Overlock 10	2.3	55
9	Ferromagnetic interactions in the first dicubane-type complex involving cyanate ligand: [Co <sub>4</sub> (dpk-OH) <sub>2</sub> (dpk-OMe) <sub>2</sub> (NCO) <sub>4</sub> ]. <i>Chemical Communications</i> , 2001, , 45-46.	4.1	53
10	New binder phases for the consolidation of TiB <sub>2</sub> hardmetals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 216, 185-192.	5.6	45
11	Structural analysis and magnetic properties of the dicubane-like tetramer [Ni(dpka-OH)(N <sub>3</sub> ) <sub>4</sub> ·2H <sub>2</sub> O] (dpka = di-2-pyridyl ketone). <i>Dalton Transactions RSC</i> , 2000, , 29-34.	2.3	44
12	Solvent control in the synthesis of [Mn(NCS) <sub>2</sub> (bpe) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] and [Mn(NCS) <sub>2</sub> (bpe) <sub>1.5</sub> (CH <sub>3</sub> OH)] <sub>n</sub> (bpe = 1,2-bis(4-pyridyl)ethene): structural analysis and magnetic properties. <i>Dalton Transactions RSC</i> , 2000, , 1469-1473.	2.3	41
13	Towards the standardization of nanoecotoxicity testing: Natural organic matter camouflages the adverse effects of TiO <sub>2</sub> and CeO <sub>2</sub> nanoparticles on green microalgae. <i>Science of the Total Environment</i> , 2016, 543, 95-104.	8.0	37
14	Structure, tribocorrosion and biocide characterization of Ca, P and I containing TiO <sub>2</sub> coatings developed by plasma electrolytic oxidation. <i>Applied Surface Science</i> , 2016, 367, 1-10.	6.1	35
15	Crystal structure and esr spectra of two M(II)-dpk-NCS coordination compounds (M=Mn, Cu and Ni); Tj ETQq1 1 0.784314 rgBT / Overlock 10	2.2	34
16	Self-assembly of iron TCPP (meso-tetra(4-carboxyphenyl)porphyrin) into a chiral 2D coordination polymer. <i>Polyhedron</i> , 2011, 30, 2711-2716.	2.2	34
17	Magnetostructural characterisation of two M(NCO)-bpa polymers (M = Co, Mn and Cu); Tj ETQq1 1 0.784314 rgBT / Overlock 10	2.3	33
18	Characterization of Ti-C-N coatings deposited on Ti6Al4V for biomedical applications. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 359-366.	3.5	33

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19	Thermal stability and crystallochemical analysis for Coll-based coordination polymers with TPP and TPPS porphyrins. <i>CrystEngComm</i> , 2013, 15, 4181.	2.6	32
20	Cu <sup>II</sup> -based metal-organic nanoballs for very rapid adsorption of dyes and iodine. <i>CrystEngComm</i> , 2016, 18, 1709-1712.	2.6	32
21	Structural analysis and magnetic properties of the 1D [Fe(dca) <sub>2</sub> bipy(H <sub>2</sub> O)] $\cdot$ 1/2H <sub>2</sub> O and the 3D [Ni(dca) <sub>2</sub> bipy] $\cdot$ (dca = dicyanamide; bipy = 4,4'-bipyridine). <i>Dalton Transactions RSC</i> , 2002, , 4275-4280.	2.3	31
22	Structural Analysis, Spectroscopic, and Magnetic Properties of the 1D Triple-Bridged Compounds [M(dca) <sub>2</sub> (bpa)] (M = Mn, Fe, Co, Zn; dca = dicyanamide; bpa = 1,2-bis(4-pyridyl)ethane) and the 3D [Ni(dca)(bpa) <sub>2</sub> ] $\cdot$ 6H <sub>2</sub> O. <i>Inorganic Chemistry</i> , 2010, 49, 10445-10454.	4.0	31
23	Development of Ti-C-N coatings with improved tribological behavior and antibacterial properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 55, 75-86.	3.1	30
24	Fe-Ni-Ti binder phases for TiB <sub>2</sub> -based cermets: a thermodynamic approach. <i>Scripta Materialia</i> , 1998, 39, 1395-1400.	5.2	28
25	Solid-state transformation of the MOF [Ni <sub>2</sub> (bipy) <sub>1.5</sub> (PDC) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] $\cdot$ 3.5H <sub>2</sub> O. <i>CrystEngComm</i> , 2011, 13, 6831.	2.6	28
26	Consolidation, microstructure and mechanical properties of newly developed TiB <sub>2</sub> -Based materials. <i>Scripta Metallurgica Et Materialia</i> , 1992, 26, 957-962.	1.0	24
27	Oxidation resistance and microstructure of the oxide layers for TiB <sub>2</sub> -based cermets. <i>Journal of Materials Chemistry</i> , 1998, 8, 1851-1857.	6.7	23
28	Heterogeneous catalytic properties of unprecedented 1/4-O-[FeTCPP] <sub>2</sub> dimers (H <sub>2</sub> TCPP = meso-tetra(4-carboxyphenyl)porphyrin): an unusual superhyperfine EPR structure. <i>Dalton Transactions</i> , 2015, 44, 213-222.	3.3	22
29	Crystal structure and magnetic properties of two metal-picolinate systems obtained from degradation of bis(2-pyridylketone) through reaction with Mn(II) and Cu(II). <i>Polyhedron</i> , 1999, 18, 1311-1316.	2.2	21
30	Ecotoxicity of multiwalled carbon nanotubes: Standardization of the dispersion methods and concentration measurements. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1854-1862.	4.3	21
31	High-Performance Room Temperature Lithium-Ion Battery Solid Polymer Electrolytes Based on Poly(vinylidene fluoride-co-hexafluoropropylene) Combining Ionic Liquid and Zeolite. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48889-48900.	8.0	21
32	The role of hydrogen bonding on supramolecular assembly of the mercury coordination compounds and final structure influenced by solvent effect. <i>Inorganica Chimica Acta</i> , 2015, 429, 1-14.	2.4	19
33	Coordination and Crystallization Molecules: Their Interactions Affecting the Dimensionality of Metalloporphyrinic SCFs. <i>Molecules</i> , 2015, 20, 6683-6699.	3.8	18
34	Oxidation resistance of two TiB <sub>2</sub> -based cermets. <i>Materials Research Bulletin</i> , 1999, 34, 1001-1011.	5.2	15
35	Key challenges for nanotechnology: Standardization of ecotoxicity testing. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2017, 35, 104-126.	2.9	14
36	Highly thermally stable heterogeneous catalysts: study of 0D and 3D porphyrinic MOFs. <i>CrystEngComm</i> , 2017, 19, 7244-7252.	2.6	14

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37	Cu <sup>II</sup> PDC-bpe frameworks (PDC = 2,5-pyridinedicarboxylate, bpe = 1,2-di(4-pyridyl)ethylene): mapping of herringbone-type structures. <i>CrystEngComm</i> , 2014, 16, 8726-8735.	2.6	13
38	Fe <sup>II</sup> TPP Coordination Network with Metalloporphyrinic Neutral Radicals and <i>Face-to-Face</i> and <i>Edge-to-Face</i> Stacking. <i>Inorganic Chemistry</i> , 2013, 52, 8074-8081.	4.0	12
39	Host-guest chemistry of NiII coordination compounds with PDC and (py) <sub>2</sub> CO: reversible crystal-to-amorphous transformations induced by solvent exchange. <i>CrystEngComm</i> , 2013, 15, 5134.	2.6	12
40	Colloidal stability and ecotoxicity of multiwalled carbon nanotubes: Influence of select organic matters. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 74-83.	4.3	12
41	Unprecedented coordination modes for PDC (pyridine-2,5-dicarboxylate) in polymorphic 3D heterobimetallic compounds $[MNa_2(PDC)_2(H_2O)_4]$ , with M = Ni, Co. <i>CrystEngComm</i> , 2010, 12, 1784.	2.6	11
42	Coordination to metal centers: A tool to fix high energy conformations in organic molecules. Application to 2,4,4-trimethyl-1,5,9-triazacyclododec-1-ene and related macrocycles. <i>Dalton Transactions</i> , 2011, 40, 9504.	3.3	11
43	Thermal stability of ionic nets with CuII ions coordinated to di-2-pyridyl ketone: Reversible crystal-to-crystal phase transformation. <i>Polyhedron</i> , 2015, 92, 117-123.	2.2	11
44	Mother structures related to the hexagonal and cubic close packing in Cu <sub>24</sub> clusters: solvent-influenced derivatives. <i>CrystEngComm</i> , 2015, 17, 3297-3304.	2.6	11
45	Encapsulation of $\alpha$ -alanine model amino-acid in zirconium(IV) metal organic frameworks: Defect engineering to improve host guest interactions. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110977.	3.5	11
46	Consolidation, microstructure, and mechanical properties of a TiB <sub>2</sub> -Ni <sub>3</sub> Al composite. <i>Materials Research Bulletin</i> , 1999, 34, 53-61.	5.2	8
47	Water-induced phase transformation of a Cu <sup>II</sup> coordination framework with pyridine-2,5-dicarboxylate and di-2-pyridyl ketone: synchrotron radiation analysis. <i>CrystEngComm</i> , 2015, 17, 6346-6354.	2.6	7
48	ideal. <i>Journal of Solid State Chemistry</i> , 2015, 230, 191-198.	2.9	5
49	Double role of metalloporphyrins in catalytic bioinspired supramolecular metal-organic frameworks (SMOFs). <i>IUCr</i> , 2018, 5, 559-568.	2.2	4
50	Crystal Structures and Spectroscopic and Theoretical Properties of Pentacoordinate Nickel(II) Complexes Containing Tris(pyrazolyl)borate and Quinolate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4280-4290.	2.0	3
51	Aluminum Alkali Metalate Derivatives: Factors Driving the Final Nuclearity in the Crystal Form. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1994-2001.	2.0	3
52	Cationic Mn <sup>2+</sup> /H <sup>+</sup> exchange leading a slow solid-state transformation of a 2D porphyrinic network at ambient conditions. <i>Journal of Solid State Chemistry</i> , 2017, 247, 161-167.	2.9	3
53	Structural Characterization and Mechanical Performance of Calcium Phosphate Scaffolds and Natural Bones: A Comparative Study. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010, 8, 159-165.	0.4	2
54	Thermal and Magnetic Diversity in the Behaviour of the Cu <sup>II</sup> Coordination System: 1D, 2D and Interpenetrated 3D Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4783-4791.	2.0	2

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55	Tribocorrosion and antibacterial behaviour of TiO <sub>2</sub> coatings obtained by PEO technique. , 2014, , .		1
56	Multifunctionality of weak ferromagnetic porphyrin-based MOFs: selective adsorption in the liquid and gas phase. CrystEngComm, 2021, 23, 4205-4213.	2.6	0
57	A NEW TOOL TO CONNECT THE CONCEPTS OF LEADERSHIP AND MEMBERSHIP IN A MATERIALS SCIENCE RESEARCH GROUP: INCREASING THE SENSE OF BELONGING IN DOCTORATES. , 2016, , .		0
58	7P METHODOLOGY TO GENERATE CONVERS(A)CTIONS FOCUSED ON TRANSFORMATIONAL LEADERSHIP. , 2016, , .		0
59	INFLUENCE OF EMPIRICAL AND NON-EMPIRICAL BELIEFS ON EDUCATIONAL SKILLS: AN APPROACH FROM THE TRANSFORMATIONAL LEADERSHIP. EDULEARN Proceedings, 2016, , .	0.0	0
60	Metalloporphyrinic solid frameworks: catalytic activity. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e285-e285.	0.1	0
61	Crystal structure and thermal and mechanical properties of a herringbone-type Cull-based solid coordination framework. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e387-e388.	0.1	0
62	TRANSFERABLE SKILLS FOR PHD GRADUATES. EDULEARN Proceedings, 2020, , .	0.0	0
63	THESIS SUPERVISION AT THE UNIVERSITY OF THE BASQUE COUNTRY (UPV/EHU): INTERNAL AND EXTERNAL SUPERVISORS IN THE DIFFERENT FIELDS OF KNOWLEDGE. INTED Proceedings, 2022, , .	0.0	0
64	PROXIMITY OR LANGUAGE: FACTORS ATTRACTING INTERNATIONAL DOCTORAL STUDENTS TO THE UNIVERSITY OF THE BASQUE COUNTRY (UPV/EHU). EDULEARN Proceedings, 2022, , .	0.0	0