

Dino Villagran

List of Publications by Year in descending order

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65
papers

2,797
citations

172457

29
h-index

175258

52
g-index

66
all docs

66
docs citations

66
times ranked

3818
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of surface functionalization of Fe ₃ O ₄ nano-enabled electrodes on the electrochemical reduction of nitrate. Separation and Purification Technology, 2022, 282, 119771.	7.9	27
2	Design of nanomaterials for the removal of per- and poly-fluoroalkyl substances (PFAS) in water: Strategies, mechanisms, challenges, and opportunities. Science of the Total Environment, 2022, 831, 154939.	8.0	17
3	Free-base porphyrin polymer for bifunctional electrochemical water splitting. Chemical Science, 2022, 13, 8597-8604.	7.4	10
4	Cobalt porphyrin intercalation into zirconium phosphate layers for electrochemical water oxidation. Sustainable Energy and Fuels, 2021, 5, 430-437.	4.9	14
5	Earth-Abundant Electrocatalysts for the Oxygen Evolution Reaction of Water Splitting Using Nanostructured Layered Inorganic Materials. ECS Meeting Abstracts, 2021, MA2021-01, 1827-1827.	0.0	0
6	Superparamagnetic nanoadsorbents for the removal of trace As(III) in drinking water. Environmental Advances, 2021, 4, 100046.	4.8	9
7	Utilizing the broad electromagnetic spectrum and unique nanoscale properties for chemical-free water treatment. Current Opinion in Chemical Engineering, 2021, 33, 100709.	7.8	3
8	Magnetically recoverable carbon-coated iron carbide with arsenic adsorptive removal properties. SN Applied Sciences, 2020, 2, 1.	2.9	6
9	Magnetic In@Pd catalysts for nitrate degradation. Environmental Science: Nano, 2020, 7, 2681-2690.	4.3	8
10	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	4.3	74
11	Disparities between experimental and environmental conditions: Research steps toward making electrochemical water treatment a reality. Current Opinion in Electrochemistry, 2020, 22, 9-16.	4.8	108
12	Water Splitting Electrocatalysis within Layered Inorganic Nanomaterials. , 2020, , .		3
13	Redox Potential Tuning of Dimolybdenum Systems through Systematic Substitution by Guanidinate Ligands. Inorganic Chemistry, 2020, 59, 3091-3101.	4.0	0
14	Hydrogen Evolution Catalyzed by a Metal-Free Corrole: An Experimental and Theoretical Mechanistic Study. Journal of Physical Chemistry C, 2020, 124, 10265-10271.	3.1	9
15	Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. Science of the Total Environment, 2020, 738, 139213.	8.0	35
16	Silica Removal Using Magnetic Iron@Aluminum Hybrid Nanomaterials: Measurements, Adsorption Mechanisms, and Implications for Silica Scaling in Reverse Osmosis. Environmental Science & Technology, 2019, 53, 13302-13311.	10.0	22
17	Bottom-up biofilm eradication using bacteriophage-loaded magnetic nanocomposites: a computational and experimental study. Environmental Science: Nano, 2019, 6, 3539-3550.	4.3	19
18	Synthesis of high surface area transition metal sponges and their catalytic properties. New Journal of Chemistry, 2019, 43, 10045-10055.	2.8	13

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19	Mesoporous Composite Nanomaterials for Dye Removal and Other Applications. , 2019, , 265-293.		17
20	Transition Metal-Modified Exfoliated Zirconium Phosphate as an Electrocatalyst for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 3561-3567.	5.1	21
21	Electrocatalytic Production of Hydrogen Gas by a Cobalt Formamidinate Complex. Journal of the Mexican Chemical Society, 2019, 63, .	0.6	1
22	High dispersions of carbon nanotubes on cotton-cellulose benzoate fibers with enhanced electrochemical generation of reactive oxygen species in water. Journal of Environmental Chemical Engineering, 2018, 6, 1027-1032.	6.7	14
23	Hydrogen gas generation using a metal-free fluorinated porphyrin. Chemical Science, 2018, 9, 4689-4695.	7.4	38
24	Magnetic and electrocatalytic properties of transition metal doped MoS ₂ nanocrystals. Journal of Applied Physics, 2018, 124, .	2.5	42
25	Emerging opportunities for nanotechnology to enhance water security. Nature Nanotechnology, 2018, 13, 634-641.	31.5	627
26	Efficient electrocatalytic hydrogen gas evolution by a cobalt-porphyrin-based crystalline polymer. Dalton Transactions, 2018, 47, 8801-8806.	3.3	19
27	Introducing Students to Inner Sphere Electron Transfer Concepts through Electrochemistry Studies in Diferrocene Mixed-Valence Systems. Journal of Chemical Education, 2017, 94, 526-529.	2.3	9
28	3D Printing of BaTiO ₃ /PVDF Composites with Electric In Situ Poling for Pressure Sensor Applications. Macromolecular Materials and Engineering, 2017, 302, 1700229.	3.6	127
29	Electrocatalytic hydrogen gas generation by cobalt molybdenum disulfide (CoMoS ₂) synthesized using alkyl-containing thiomolybdate precursors. International Journal of Hydrogen Energy, 2017, 42, 20669-20676.	7.1	19
30	[U(bipy) ₄]: A Mistaken Case of U ⁰ ?. Chemistry - A European Journal, 2016, 22, 1931-1936.	3.3	25
31	Green synthesis of magnetic MOF@GO and MOF@CNT hybrid nanocomposites with high adsorption capacity towards organic pollutants. Chemical Engineering Journal, 2016, 304, 774-783.	12.7	339
32	Enhanced charge carrier efficiency and solar light-induced photocatalytic activity of TiO ₂ nanoparticles through doping of silver nanoclusters and N/S nonmetals. Journal of Industrial and Engineering Chemistry, 2016, 35, 132-139.	5.8	36
33	Unprecedented W ₂ (O) quadruply bonded complex supported by Ï€-donor ligands. Chemical Communications, 2016, 52, 3974-3976.	4.1	4
34	Band gap and Schottky barrier engineered photocatalyst with promising solar light activity for water remediation. RSC Advances, 2016, 6, 15678-15685.	3.6	10
35	Synthesis of cysteine, cobalt and copper-doped TiO ₂ nanophotocatalysts with excellent visible-light-induced photocatalytic activity. Materials Science in Semiconductor Processing, 2016, 41, 168-176.	4.0	43
36	In,V-codoped TiO ₂ nanocomposite prepared via a photochemical reduction technique as a novel high efficiency visible-light-driven nanophotocatalyst. RSC Advances, 2015, 5, 78128-78135.	3.6	10

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37	Stabilization of a W ²⁺ bimetallic complex supported by two N,N'-bis(2,6-diphenylpyridine)-N,N'-bis(triphenyl)guanidinate ligands. <i>Inorganica Chimica Acta</i> , 2015, 424, 286-292.	2.4	4
38	Manipulating Magnetism: Ru ₂ ⁵⁺ Paddlewheels Devoid of Axial Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 9580-9589.	13.7	24
39	Synthesis, characterization, and evaluation of cis-diphenyl pyridineamine platinum(II) complexes as potential anti-breast cancer agents. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 967-979.	2.6	9
40	Pacman and Hangman Metal Tetraazamacrocycles. <i>ChemSusChem</i> , 2013, 6, 1541-1544.	6.8	15
41	Iron in a Trigonal Tris(alkoxide) Ligand Environment. <i>Inorganic Chemistry</i> , 2013, 52, 3159-3169.	4.0	30
42	Dinitrogen binding at vanadium in a tris(alkoxide) ligand environment. <i>Chemical Communications</i> , 2011, 47, 10242.	4.1	38
43	Decarbonylation of ethanol to methane, carbon monoxide and hydrogen by a [PNP]Ir complex. <i>Chemical Communications</i> , 2010, 46, 79-81.	4.1	34
44	Pseudotetrahedral d ⁰ , d ¹ , and d ² Metal ⁿ⁺ Oxo Cores within a Tris(alkoxide) Platform. <i>Inorganic Chemistry</i> , 2010, 49, 10759-10761.	4.0	36
45	Synthesis, Structures, and Properties of 1,2,4,5-Benzenetetra-thiolate Linked Group 10 Metal Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 10591-10607.	4.0	42
46	A Convergent Approach to the Synthesis of Multimetallic Dithiolene Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 5570-5572.	4.0	13
47	Inelastic neutron scattering study of a quantum spin trimer. <i>Physical Review B</i> , 2007, 75, .	3.2	7
48	How Small Variations in Crystal Interactions Affect Macroscopic Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 12666-12667.	13.7	34
49	A Fractional Bond Order of 1/2 in Pd ²⁺ Formamidinate Species; The Value of Very High-Field EPR Spectra. <i>Journal of the American Chemical Society</i> , 2007, 129, 1393-1401.	13.7	49
50	Facilitating Access to the Most Easily Ionized Molecule: an Improved Synthesis of the Key Intermediate, W ₂ (hpp) ₄ Cl ₂ , and Related Compounds. <i>Inorganic Chemistry</i> , 2006, 45, 201-213.	4.0	40
51	Uniquely Strong Electronic Communication between [Mo ₂] Units Linked by Dioxolene Dianions. <i>Journal of the American Chemical Society</i> , 2006, 128, 3281-3290.	13.7	45
52	Metal ⁿ⁺ -Metal Bonding in Mixed Valence Ni ²⁺ Complexes and Spectroscopic Evidence for a Ni ²⁺ Species. <i>Inorganic Chemistry</i> , 2006, 45, 4396-4406.	4.0	48
53	Strong Electronic Interaction between Two Dimolybdenum Units Linked by a Tetraazatetracene. <i>Inorganic Chemistry</i> , 2006, 45, 767-778.	4.0	30
54	A Diamagnetic Ditungsten(III) Paddlewheel Complex with No Direct Metal ⁿ⁺ -Metal Bond. <i>Inorganic Chemistry</i> , 2006, 45, 4328-4330.	4.0	27

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55	Modeling Spin Interactions in a Cyclic Trimer and a Cuboidal Co ₄ O ₄ Core with Co(II) in Tetrahedral and Octahedral Environments. <i>Journal of the American Chemical Society</i> , 2005, 127, 4895-4902.	13.7	73
56	Strong Electronic Coupling between Mo ₂ n ⁺ Units: The Oxidation Products of [Mo ₂ (DAniF) ₃] ₂ (^{1/4} H) ₂ and Mo ₂ (DAniF) ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2606-2612.	1.2	26
57	Expeditious Access to the Most Easily Ionized Closed-Shell Molecule, W ₂ (hpp) ₄ . <i>Journal of the American Chemical Society</i> , 2005, 127, 10808-10809.	13.7	47
58	Structural and Magnetic Evidence Concerning Spin Crossover in Formamidinate Compounds with Ru ₂₅ ⁺ Cores. <i>Journal of the American Chemical Society</i> , 2005, 127, 5008-5009.	13.7	51
59	Dicarboxylato-bridged diruthenium units in two different oxidation states: the first step towards the synthesis of Creutz-Taube analogs with dinuclear Ru ₂ n ⁺ species. <i>Inorganic Chemistry Communication</i> , 2004, 7, 9-13.	3.9	46
60	Paramagnetic Precursors for Supramolecular Assemblies: Selective Syntheses, Crystal Structures, and Electrochemical and Magnetic Properties of Ru ₂ (O ₂ CMe) _{4-n} (formamidinate) _n Cl Complexes, n= 1-4. <i>Inorganic Chemistry</i> , 2004, 43, 8290-8300.	4.0	45
61	Reaction Products of W(CO) ₆ with Formamidines; Electronic Structure of a W ₂ (^{1/4} -CO) ₂ Core with Unsymmetric Bridging Carbonyls. <i>Inorganic Chemistry</i> , 2004, 43, 6954-6964.	4.0	18
62	Paramagnetism at Ambient Temperature, Diamagnetism at Low Temperature in a Ru ₂₆ ⁺ Core: Structural Evidence for Zero-Field Splitting. <i>Inorganic Chemistry</i> , 2004, 43, 8373-8378.	4.0	35
63	Strong Electronic Coupling between Dimolybdenum Units Linked by the N,N'-Dimethyloxamidate Anion in a Molecule Having a Heteronaphthalene-like Structure. <i>Journal of the American Chemical Society</i> , 2004, 126, 14822-14831.	13.7	46
64	Finite Group Theory for Large Systems. 2. Generating Relations and Irreducible Representations for the Icosahedral Point Group, h. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1763-1770.	2.8	4
65	Modifying Electronic Communication in Dimolybdenum Units by Linkage Isomers of Bridged Oxamidate Dianions. <i>Journal of the American Chemical Society</i> , 2003, 125, 13564-13575.	13.7	102