

Rico E Del Sesto

List of Publications by Year in descending order

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43
papers

2,763
citations

361296

20
h-index

276775

41
g-index

43
all docs

43
docs citations

43
times ranked

3901
citing authors

#	ARTICLE	IF	CITATIONS
1	The large scale synthesis of pure imidazolium and pyrrolidinium ionic liquids. <i>Green Chemistry</i> , 2007, 9, 449.	4.6	387
2	Structure and magnetic behavior of transition metal based ionic liquids. <i>Chemical Communications</i> , 2008, , 447-449.	2.2	296
3	Vibrational spectra of imidazolium tetrafluoroborate ionic liquids. <i>Journal of Molecular Liquids</i> , 2006, 124, 84-95.	2.3	266
4	Ionic liquids as a class of materials for transdermal delivery and pathogen neutralization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13313-13318.	3.3	258
5	Tetraalkylphosphonium-based ionic liquids. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2536-2542.	0.8	255
6	Engineering the Structure and Magnetic Properties of Crystalline Solids via the Metal-Directed Self-Assembly of a Versatile Molecular Building Unit. <i>Journal of the American Chemical Society</i> , 2002, 124, 6613-6625.	6.6	206
7	Exceptionally Long ($\approx 2.9 \text{ \AA}$...) CC Bonding Interactions in [TCNE] ₂ Dimers: Two-Electron Four-Center Cation-Mediated CC Bonding Interactions Involving σ^* Electrons. <i>Chemistry - A European Journal</i> , 2002, 8, 4894-4908.	1.7	134
8	Limited thermal stability of imidazolium and pyrrolidinium ionic liquids. <i>Thermochimica Acta</i> , 2009, 491, 118-120.	1.2	112
9	Choline and Geranate Deep Eutectic Solvent as a Broad Spectrum Antiseptic Agent for Preventive and Therapeutic Applications. <i>Advanced Healthcare Materials</i> , 2016, 5, 1282-1289.	3.9	104
10	Nanocomposite scintillators for radiation detection and nuclear spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 579, 15-18.	0.7	101
11	Copper(II) Benzoate Nitroxide Dimers and Chains: Structure and Magnetic Studies. <i>Inorganic Chemistry</i> , 2000, 39, 4894-4902.	1.9	79
12	Improved Hydrogen Release from Ammonia-Borane with ZIF-8. <i>Inorganic Chemistry</i> , 2012, 51, 2728-2730.	1.9	61
13	Evidence for spin diffusion in a H,H-NOESY study of imidazolium tetrafluoroborate ionic liquids. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, 71-75.	1.1	56
14	Chemical Reduction of 2,4,6-Tricyano-1,3,5-triazine and 1,3,5-Tricyanobenzene. Formation of Novel 4,4',6,6'-Tetracyano-2,2'-bitriazine and Its Radical Anion. <i>Journal of Organic Chemistry</i> , 2003, 68, 3367-3379.	1.7	46
15	On the existence of long C-C bonds between pairs of anions which repel: when and why? A test case on the [TCNE] ₂ dimers found in ionic crystals. <i>CrystEngComm</i> , 2002, 4, 373-377.	1.3	39
16	The Effect of Ligand Charge on the Coordination Geometry of an Fe(III) Ion: Five- and Six-Coordinate Fe(III) Complexes of Tris(2-benzimidazolylmethyl)amine. <i>Inorganic Chemistry</i> , 2002, 41, 4708-4714.	1.9	37
17	Large-scale synthesis of CeLaF ₃ nanocomposite scintillator materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 5716.	6.7	31
18	Structural, Electronic, and Magnetic Properties of Quasi-1D Quantum Magnets [Ni(HF ₂)(pyz) ₂] ₂ X (pyz = pyrazine; X = PF ₆ , ClO ₄ , BF ₄ , ClO ₃ , Tl, ETQq, O, O ₂ , r, g, BT, /Overlock, 10 Tf 5	1.9	30
	Chemistry, 2011, 50, 5990-6009.		

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19	Evaluation of ionic liquids on phototrophic microbes and their use in biofuel extraction and isolation. <i>Journal of Applied Phycology</i> , 2013, 25, 973-981.	1.5	25
20	Tetraalkylphosphonium-Based Ionic Liquids for a Single-Step Dye Extraction/MALDI MS Analysis Platform. <i>Analytical Chemistry</i> , 2011, 83, 2921-2930.	3.2	24
21	[Ni(HF ₂)(3-Clpy) ₄] ₄ BF ₄ (py = pyridine): Evidence for Spin Exchange Along Strongly Distorted F ₄ A ₄ H ₄ F ⁺ Bridges in a One-Dimensional Polymeric Chain. <i>Inorganic Chemistry</i> , 2012, 51, 7520-7528.	1.9	19
22	Physical, structural, and dehydrogenation properties of ammonia borane in ionic liquids. <i>RSC Advances</i> , 2014, 4, 21681-21687.	1.7	19
23	Single-Pot Extraction-Analysis of Dyed Wool Fibers with Ionic Liquids. <i>Analytical Chemistry</i> , 2012, 84, 9169-9175.	3.2	17
24	Influence of HF ₂ ⁻ geometry on magnetic interactions elucidated from polymorphs of the metal-organic framework [Ni(HF ₂)(pyz) ₂] ₂ PF ₆ (pyz = pyrazine). <i>Dalton Transactions</i> , 2012, 41, 7235.	1.6	16
25	Scope and efficacy of the broad-spectrum topical antiseptic choline geranate. <i>PLoS ONE</i> , 2019, 14, e0222211.	1.1	16
26	Formation of different framework structured dimeric dianions formed from the reduction of 2,4,6-tricyano-1,3,5-triazine and 1,3,5-tricyanobenzene Dedicated to Michael Hanack on the occasion of the 70th birthday.. <i>Chemical Communications</i> , 2001, , 2730-2731.	2.2	14
27	Luminescence in CeIV polyoxometalate [Ce(W ₅ O ₁₈) ₂] ₈ : a combined experimental and theoretical study. <i>Chemical Communications</i> , 2010, 46, 1848-1850.	2.2	14
28	Crystal Structures and Magnetic Properties of Nitronyl Nitroxide Radicals. <i>Helvetica Chimica Acta</i> , 2003, 86, 1234-1245.	1.0	11
29	Utilization of Metal Halide Species Ambiguity to Develop Amorphous, Stabilized Pharmaceutical Agents As Ionic Liquids. <i>Crystal Growth and Design</i> , 2012, 12, 5357-5364.	1.4	11
30	Copper(II) carboxylate dimers and chains. <i>Synthetic Metals</i> , 2001, 122, 543-546.	2.1	9
31	Charge transfer complexes of 2,4,6-tricyano-s-triazine with tetrathiafulvalene (TTF) and N,N,N',N'-tetramethyl-p-phenylenediamine (TMPD). <i>CrystEngComm</i> , 2002, 4, 117-120.	1.3	9
32	Formation of an unusual charge-transfer network from an ionic liquid. <i>Chemical Communications</i> , 2006, , 272-274.	2.2	9
33	Ionic Liquid Polyoxometalates as Light Emitting Materials. <i>ECS Transactions</i> , 2009, 16, 171-180.	0.3	8
34	Unprecedented magnetic behaviour in lanthanide-based ionic liquids. <i>Chemical Communications</i> , 2017, 53, 11682-11685.	2.2	8
35	[Et ₄ N] ₂ [TCNE] ₂ (TCNE= tetracyanoethylene) an example of an exceptionally long 2.827 Å... CC bond. <i>CrystEngComm</i> , 2001, 3, 222-224.	1.3	7
36	Modeling, synthesis, and characterization of third-order nonlinear optical salts. , 2003, , .		7

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37	Nonlinear Optical Ionic Liquids. ACS Symposium Series, 2005, , 144-158.	0.5	7
38	Isolation of two salts from the reduction of TCNE with [(n-C3H7)4N]I. A further example of long 2.87 Å... C-C bonding in [TCNE]2 ²⁻ . CrystEngComm, 2002, 4, 106-108.	1.3	5
39	Isolation of an Asymmetric Lanthanide Polyoxometalate, Na12H[(W5O18)Tb(H2W11O39)]·42H2O, Containing Two Distinct Isopolyanions. Journal of Chemical Crystallography, 2012, 42, 651-655.	0.5	3
40	Integration of choline geranate into electrospun protein scaffolds affords antimicrobial activity to biomaterials used for cutaneous wound healing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1271-1282.	1.6	3
41	Biphasic Extraction, Recovery and Identification of Organic and Inorganic Compounds with Ionic Liquids. ACS Symposium Series, 2017, , 283-302.	0.5	2
42	Exceptionally Long (>=2.9 Å...) C-C Bonds between. Angewandte Chemie - International Edition, 2001, 40, 2540-2545.	7.2	2
43	Exotic Ionic liquid Materials for Optical and Magnetic Applications. ECS Meeting Abstracts, 2008, , .	0.0	0