

Adam J Rondinone

List of Publications by Year in descending order

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104
papers

6,605
citations

53660

45
h-index

62479

80
g-index

107
all docs

107
docs citations

107
times ranked

10930
citing authors

#	ARTICLE	IF	CITATIONS
1	Sol-gel synthesis of nano-scale, end-member albite feldspar (NaAlSi ₃ O ₈). Journal of Colloid and Interface Science, 2021, 603, 459-467.	5.0	2
2	Work function measurements of clean and modified carbon nanospikes. Carbon, 2020, 168, 302-307.	5.4	7
3	Optimization of a real-time high-throughput assay for assessment of Streptococcus mutans metabolism and screening of antibacterial dental adhesives. Dental Materials, 2020, 36, 353-365.	1.6	11
4	Ionic Conductance through Graphene: Assessing Its Applicability as a Proton Selective Membrane. ACS Nano, 2019, 13, 12109-12119.	7.3	28
5	Voltage gated inter-cation selective ion channels from graphene nanopores. Nanoscale, 2019, 11, 9856-9861.	2.8	37
6	Facile emulsion mediated synthesis of phase-pure diopside nanoparticles. Scientific Reports, 2018, 8, 3099.	1.6	5
7	A physical catalyst for the electrolysis of nitrogen to ammonia. Science Advances, 2018, 4, e1700336.	4.7	264
8	Adsorption of Molecular Nitrogen in Electrical Double Layers near Planar and Atomically Sharp Electrodes. Langmuir, 2018, 34, 14552-14561.	1.6	2
9	Carbon Nanospikes on Silicon Wafer for Amperometric Biosensing Applications. , 2018, 2018, 4281-4284.		7
10	Structural hierarchy of nanocarbon in copper covetics. Applied Physics Letters, 2018, 113, 173102.	1.5	2
11	Geometry aids green carbon electrochemistry. Nature Catalysis, 2018, 1, 903-904.	16.1	1
12	Antibacterial dental adhesive resins containing nitrogen-doped titanium dioxide nanoparticles. Materials Science and Engineering C, 2018, 93, 931-943.	3.8	51
13	Nano-scale synthesis of the complex silicate minerals forsterite and enstatite. Journal of Colloid and Interface Science, 2017, 495, 94-101.	5.0	15
14	Polyol Synthesis of Magnetite Nanocrystals in a Thermostable Ionic Liquid. Crystal Growth and Design, 2017, 17, 1558-1567.	1.4	16
15	Li-ion site disorder driven superionic conductivity in solid electrolytes: a first-principles investigation of $\text{Li}_{3-x}\text{PS}_4$. Journal of Materials Chemistry A, 2017, 5, 1153-1159.	5.2	50
16	One-Pot Process in Scalable Bath for Water-Dispersed ZnS Nanocrystals with the Tailored Size. Journal of Nanoscience and Nanotechnology, 2017, 17, 2943-2950.	0.9	0
17	(Invited) Development of in situ Electrochemical Small-Angle Neutron Scattering (eSANS) for Simultaneous Structure and Redox Characterization of Nanoparticles. ECS Transactions, 2016, 72, 179-188.	0.3	2
18	Building with Ions: Development of In-situ Liquid Cell Microscopy for the Helium Ion Microscope.. Microscopy and Microanalysis, 2016, 22, 754-755.	0.2	0

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19	Polarization Control via He-Ion Beam Induced Nanofabrication in Layered Ferroelectric Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7349-7355.	4.0	19
20	High-Selectivity Electrochemical Conversion of CO ₂ to Ethanol using a Copper Nanoparticle/N-doped Graphene Electrode. <i>ChemistrySelect</i> , 2016, 1, 6055-6061.	0.7	251
21	Atomistic-Scale Simulations of Defect Formation in Graphene under Noble Gas Ion Irradiation. <i>ACS Nano</i> , 2016, 10, 8376-8384.	7.3	113
22	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe ₂ : enabling nanoscale direct write homo-junctions. <i>Scientific Reports</i> , 2016, 6, 27276.	1.6	99
23	Graphene engineering by neon ion beams. <i>Nanotechnology</i> , 2016, 27, 125302.	1.3	21
24	Oxidative dehydrogenation of isobutane over vanadia catalysts supported by titania nanoshapes. <i>Catalysis Today</i> , 2016, 263, 84-90.	2.2	17
25	Time-dependent water dynamics in hydrated uranyl fluoride. <i>Molecular Physics</i> , 2016, 114, 61-71.	0.8	5
26	Improvement of the fracture toughness of hydroxyapatite (HAp) by incorporation of carboxyl functionalized single walled carbon nanotubes (CfSWCNTs) and nylon. <i>Materials Science and Engineering C</i> , 2016, 60, 204-210.	3.8	36
27	Implications of Room Temperature Oxidation on Crystal Structure and Exchange Bias Effect in Co/CoO Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26219-26228.	1.5	14
28	Scanning Helium Ion Microscopy-Induced Secondary Electron Yields of Composite Materials. <i>Microscopy and Microanalysis</i> , 2015, 21, 1691-1692.	0.2	0
29	Structural Phase Transitions and Water Dynamics in Uranyl Fluoride Hydrates. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11900-11910.	1.1	9
30	Degradation of Trichloroethene with a Novel Ball Milled Fe-C Nanocomposite. <i>Journal of Hazardous Materials</i> , 2015, 300, 443-450.	6.5	87
31	Maskless Lithography and in situ Visualization of Conductivity of Graphene using Helium Ion Microscopy. <i>Scientific Reports</i> , 2015, 5, 11952.	1.6	38
32	Correlating high power conversion efficiency of PTB7:PC ₇₁ BM inverted organic solar cells with nanoscale structures. <i>Nanoscale</i> , 2015, 7, 15576-15583.	2.8	54
33	Nanostructure enhanced ionic transport in fullerene reinforced solid polymer electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8266-8275.	1.3	13
34	Synthesis and characterization of lanthanum phosphate nanoparticles as carriers for ²²³ Ra and ²²⁵ Ra for targeted alpha therapy. <i>Nuclear Medicine and Biology</i> , 2015, 42, 614-620.	0.3	54
35	Solvothermal Synthesis and Surface Chemistry To Control the Size and Morphology of Nanoquartz. <i>Crystal Growth and Design</i> , 2015, 15, 5327-5331.	1.4	10
36	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. <i>Nano Energy</i> , 2015, 17, 27-35.	8.2	166

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37	Magnetic and structural phase transitions in the spinel compound $\text{Fe}_{1+x}\text{Cr}_2\text{O}_4$. <i>Physical Review B</i> , 2014, 89, .	1.1	15
38	Identifying Active Functionalities on Few-Layered Graphene Catalysts for Oxidative Dehydrogenation of Isobutane. <i>ChemSusChem</i> , 2014, 7, 483-491.	3.6	56
39	A high conductivity oxide-sulfide composite lithium superionic conductor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4111-4116.	5.2	77
40	Growth and Electrochemical Characterization of Carbon Nanospire Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, H558-H563.	1.3	24
41	Understanding How Processing Additives Tune the Nanoscale Morphology of High Efficiency Organic Photovoltaic Blends: From Casting Solution to Spin-Cast Thin Film. <i>Advanced Functional Materials</i> , 2014, 24, 6647-6657.	7.8	39
42	Solvent-type-dependent polymorphism and charge transport in a long fused-ring organic semiconductor. <i>Nanoscale</i> , 2014, 6, 449-456.	2.8	59
43	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. <i>Acta Biomaterialia</i> , 2014, 10, 4474-4483.	4.1	49
44	Combined X-ray and neutron diffraction Rietveld refinement in iron-substituted nano-hydroxyapatite. <i>Journal of Materials Science</i> , 2013, 48, 3535-3545.	1.7	10
45	Scalable economic extracellular synthesis of CdS nanostructured particles by a non-pathogenic thermophile. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1263-1271.	1.4	31
46	Conjugated Polymer-Mediated Polymorphism of a High Performance, Small-Molecule Organic Semiconductor with Tuned Intermolecular Interactions, Enhanced Long-Range Order, and Charge Transport. <i>Chemistry of Materials</i> , 2013, 25, 4378-4386.	3.2	77
47	Correlating cation ordering and voltage fade in a lithium-manganese-rich lithium-ion battery cathode oxide: a joint magnetic susceptibility and TEM study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19496.	1.3	108
48	Solvent quality-induced nucleation and growth of parallelepiped nanorods in dilute poly(3-hexylthiophene) (P3HT) solution and the impact on the crystalline morphology of solution-cast thin film. <i>CrystEngComm</i> , 2013, 15, 1114-1124.	1.3	51
49	Anomalous High Ionic Conductivity of Nanoporous Li_3PS_4 . <i>Journal of the American Chemical Society</i> , 2013, 135, 975-978.	6.6	709
50	Oxygen-Functionalized Few-Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. <i>ChemSusChem</i> , 2013, 6, 840-846.	3.6	61
51	Magnetic alignment of SWCNTs decorated with Fe_3O_4 to enhance mechanical properties of SC-15 epoxy. <i>AIP Advances</i> , 2013, 3, .	0.6	18
52	Nanomorphology influence on the light conversion mechanisms in highly efficient diketopyrrolopyrrole based organic solar cells. <i>Organic Electronics</i> , 2013, 14, 326-334.	1.4	21
53	Gold-coated lanthanide phosphate nanoparticles for an $>225\text{Ac}$ in vivo alpha generator. <i>Radiochimica Acta</i> , 2013, 101, 595-600.	0.5	23
54	Switching phase separation mode by varying the hydrophobicity of polymer additives in solution-processed semiconducting small-molecule/polymer blends. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	65

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55	Gold Coated Lanthanide Phosphate Nanoparticles for Targeted Alpha Generator Radiotherapy. PLoS ONE, 2013, 8, e54531.	1.1	99
56	Utilizing AgCl:Ag and AgCl mesostructures as solid precursors in the formation of highly textured silver nanomaterials via electron-beam induced decomposition. RSC Advances, 2012, 2, 9359.	1.7	11
57	Furan substituted diketopyrrolopyrrole and thienylenevinylene based low band gap copolymer for high mobility organic thin film transistors. Journal of Materials Chemistry, 2012, 22, 17284.	6.7	52
58	Understanding the Metal-Directed Growth of Single-Crystal M-TCNQF ₄ Organic Nanowires with Time-Resolved, in Situ X-ray Diffraction and First-Principles Theoretical Studies. Journal of the American Chemical Society, 2012, 134, 14353-14361.	6.6	17
59	Galvanic synthesis of bi-modal porous metal nanostructures using aluminum nanoparticle templates. Materials Letters, 2012, 88, 143-147.	1.3	19
60	Support Shape Effect in Metal Oxide Catalysis: Ceria-Nanoshape-Supported Vanadia Catalysts for Oxidative Dehydrogenation of Isobutane. Journal of Physical Chemistry Letters, 2012, 3, 1517-1522.	2.1	72
61	Sol-gel synthesis of nanocrystalline fayalite (Fe ₂ SiO ₄). American Mineralogist, 2012, 97, 653-656.	0.9	26
62	Ternary behavior and systematic nanoscale manipulation of domain structures in P3HT/PCBM/P3HT-b-PEO films. Journal of Materials Chemistry, 2012, 22, 13013.	6.7	53
63	Injectable and Biodegradable Nanohybrid Polymers with Simultaneously Enhanced Stiffness and Toughness for Bone Repair. Advanced Functional Materials, 2012, 22, 3181-3190.	7.8	30
64	LaPO ₄ Nanoparticles Doped with Actinium-225 that Partially Sequester Daughter Radionuclides. Bioconjugate Chemistry, 2011, 22, 766-776.	1.8	96
65	Magnetic properties of bio-synthesized zinc ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2011, 323, 3043-3048.	1.0	46
66	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 25368-25378.	1.5	91
67	Large-scale production of magnetic nanoparticles using bacterial fermentation. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 1023-1031.	1.4	105
68	Crystallite Sizes and Lattice Parameters of Nano-Biomagnetite Particles. Journal of Nanoscience and Nanotechnology, 2010, 10, 8298-8306.	0.9	21
69	Cobalt iron-oxide nanoparticle modified poly(methyl methacrylate) nanodielectrics. Applied Physics A: Materials Science and Processing, 2009, 94, 843-852.	1.1	46
70	Degeneration of biogenic superparamagnetic magnetite. Geobiology, 2009, 7, 25-34.	1.1	27
71	Growth, Patterning, and One-Dimensional Electron Transport Properties of Self-Assembled Ag-TCNQF ₄ Organic Nanowires. Chemistry of Materials, 2009, 21, 4275-4281.	3.2	48
72	Modulation of release rate and barrier transport of Diclofenac incorporated in hydrophilic matrices: Role of cyclodextrins and implications in oral drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 72, 76-82.	2.0	27

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73	Self-Assembly of Metal Oxide Nanoparticles into Hierarchically Patterned Porous Architectures Using Ionic Liquid/Oil Emulsions. <i>Langmuir</i> , 2009, 25, 7229-7233.	1.6	22
74	Nanodielectrics for Cryogenic Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 2354-2358.	1.1	10
75	Characterization of Al ₂ O ₃ Supported Nickel Catalysts Derived from RF Non-thermal Plasma Technology. <i>Topics in Catalysis</i> , 2008, 49, 145-152.	1.3	14
76	Toward Environmentally Benign Oxidations: Bulk Mixed Mo _{0.5} V _{0.5} (Te _{0.5} Nb _{0.5})O ₁₀ M1-Phase Catalysts for the Selective Ammoxidation of Propane. <i>ChemSusChem</i> , 2008, 1, 519-523.	3.6	11
77	The fate of MAb-targeted Cd ^{125m} Te/ZnS nanoparticles in vivo. <i>Nuclear Medicine and Biology</i> , 2008, 35, 501-514.	0.3	59
78	XANES Study of Hydrothermal Mo ^V -Based Mixed Oxide M1-Phase Catalysts for the (Amm)oxidation of Propane. <i>Chemistry of Materials</i> , 2008, 20, 6611-6616.	3.2	25
79	Ternary cadmium sulphide selenide quantum dots as new scintillation materials. <i>Materials Technology</i> , 2008, 23, 94-99.	1.5	4
80	In vivo SPECT/CT imaging and biodistribution using radioactive Cd ^{125m} Te/ZnS nanoparticles. <i>Nanotechnology</i> , 2007, 18, 175103.	1.3	40
81	Metastable tetragonal phase CdWO ₄ nanoparticles synthesized with a solvothermal method. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 281-284.	5.0	32
82	Magnetic response of microbially synthesized transition metal- and lanthanide-substituted nano-sized magnetites. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 313, 283-292.	1.0	26
83	Applications of Nanoparticles in Scintillation Detectors. <i>ACS Symposium Series</i> , 2007, , 117-129.	0.5	5
84	Self-Assembled Colloidal Crystals from ZrO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19456-19460.	1.2	10
85	Facile, alternative synthesis of lanthanum phosphate nanocrystals by ultrasonication. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 127-132.	5.0	41
86	Morphologically Templated Growth of Aligned Spinel CoFe ₂ O ₄ Nanorods. <i>Advanced Materials</i> , 2005, 17, 1415-1419.	11.1	100
87	Raman spectroscopic studies on structure I and structure II trimethylene oxide hydrate. <i>Canadian Journal of Physics</i> , 2005, 83, 941-949.	0.4	4
88	Nanoscale thermometry via the fluorescence of YAG:Ce phosphor particles: measurements from 7 to 77°C. <i>Nanotechnology</i> , 2003, 14, 859-863.	1.3	90
89	Neutron Diffraction Study of Structure I and Structure II Trimethylene Oxide Clathrate Deuterate. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6046-6050.	1.2	30
90	CO ₂ Hydrate: Synthesis, Composition, Structure, Dissociation Behavior, and a Comparison to Structure I CH ₄ Hydrate. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5529-5539.	1.2	178

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91	Preparation and Characterization of Silver Sulfide Nanocrystals Generated from Silver(I)-Thiolate Polymers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10416-10422.	1.2	66
92	A sapphire cell for high-pressure, low-temperature neutron-scattering experiments on gas hydrates. <i>Canadian Journal of Physics</i> , 2003, 81, 381-385.	0.4	17
93	Temperature dependence of polyhedral cage volumes in clathrate hydrates. <i>Canadian Journal of Physics</i> , 2003, 81, 183-189.	0.4	20
94	Neutron powder diffraction studies as a function of temperature of structure II hydrate formed from propane. <i>Canadian Journal of Physics</i> , 2003, 81, 431-438.	0.4	57
95	Determination of Magnetic Anisotropy Distribution and Anisotropy Constant of Manganese Spinel Ferrite Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7967-7971.	1.2	84
96	Sol-gel Synthesis of Free-Standing Ferroelectric Lead Zirconate Titanate Nanoparticles. <i>Journal of the American Chemical Society</i> , 2001, 123, 4344-4345.	6.6	152
97	A Chemometric Approach for Predicting the Size of Magnetic Spinel Ferrite Nanoparticles from the Synthesis Conditions. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7919-7922.	1.2	49
98	Characterizing the magnetic anisotropy constant of spinel cobalt ferrite nanoparticles. <i>Applied Physics Letters</i> , 2000, 76, 3624-3626.	1.5	109
99	Synthesis of magnetic spinel ferrite CoFe ₂ O ₄ nanoparticles from ferric salt and characterization of the size-dependent superparamagnetic properties. <i>Pure and Applied Chemistry</i> , 2000, 72, 37-45.	0.9	205
100	Reverse Micelle Synthesis and Characterization of Superparamagnetic MnFe ₂ O ₄ Spinel Ferrite Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1141-1145.	1.2	349
101	Chemical Control of Superparamagnetic Properties of Magnesium and Cobalt Spinel Ferrite Nanoparticles through Atomic Level Magnetic Couplings. <i>Journal of the American Chemical Society</i> , 2000, 122, 6263-6267.	6.6	411
102	Synthesis of superparamagnetic MgFe ₂ O ₄ nanoparticles by coprecipitation. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 194, 1-7.	1.0	212
103	Superparamagnetic Relaxation and Magnetic Anisotropy Energy Distribution in CoFe ₂ O ₄ Spinel Ferrite Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6876-6880.	1.2	283
104	Characterization of Bio-Synthesized Magnetic Nanoparticles. , 0, , .		2