

Adam J Rondinone

List of Publications by Year in descending order

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104
papers

6,605
citations

53751

45
h-index

62565

80
g-index

107
all docs

107
docs citations

107
times ranked

10930
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous High Ionic Conductivity of Nanoporous Li_3PS_4 . Journal of the American Chemical Society, 2013, 135, 975-978.	6.6	709
2	Chemical Control of Superparamagnetic Properties of Magnesium and Cobalt Spinel Ferrite Nanoparticles through Atomic Level Magnetic Couplings. Journal of the American Chemical Society, 2000, 122, 6263-6267.	6.6	411
3	Reverse Micelle Synthesis and Characterization of Superparamagnetic MnFe_2O_4 Spinel Ferrite Nanocrystallites. Journal of Physical Chemistry B, 2000, 104, 1141-1145.	1.2	349
4	Superparamagnetic Relaxation and Magnetic Anisotropy Energy Distribution in CoFe_2O_4 Spinel Ferrite Nanocrystallites. Journal of Physical Chemistry B, 1999, 103, 6876-6880.	1.2	283
5	A physical catalyst for the electrolysis of nitrogen to ammonia. Science Advances, 2018, 4, e1700336.	4.7	264
6	High-Selectivity Electrochemical Conversion of CO_2 to Ethanol using a Copper Nanoparticle/N-doped Graphene Electrode. ChemistrySelect, 2016, 1, 6055-6061.	0.7	251
7	Synthesis of superparamagnetic MgFe_2O_4 nanoparticles by coprecipitation. Journal of Magnetism and Magnetic Materials, 1999, 194, 1-7.	1.0	212
8	Synthesis of magnetic spinel ferrite CoFe_2O_4 nanoparticles from ferric salt and characterization of the size-dependent superparamagnetic properties. Pure and Applied Chemistry, 2000, 72, 37-45.	0.9	205
9	CO_2 Hydrate: Synthesis, Composition, Structure, Dissociation Behavior, and a Comparison to Structure I CH_4 Hydrate. Journal of Physical Chemistry B, 2003, 107, 5529-5539.	1.2	178
10	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. Nano Energy, 2015, 17, 27-35.	8.2	166
11	Sol-gel Synthesis of Free-Standing Ferroelectric Lead Zirconate Titanate Nanoparticles. Journal of the American Chemical Society, 2001, 123, 4344-4345.	6.6	152
12	Atomistic-Scale Simulations of Defect Formation in Graphene under Noble Gas Ion Irradiation. ACS Nano, 2016, 10, 8376-8384.	7.3	113
13	Characterizing the magnetic anisotropy constant of spinel cobalt ferrite nanoparticles. Applied Physics Letters, 2000, 76, 3624-3626.	1.5	109
14	Correlating cation ordering and voltage fade in a lithium-manganese-rich lithium-ion battery cathode oxide: a joint magnetic susceptibility and TEM study. Physical Chemistry Chemical Physics, 2013, 15, 19496.	1.3	108
15	Large-scale production of magnetic nanoparticles using bacterial fermentation. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 1023-1031.	1.4	105
16	Morphologically Templated Growth of Aligned Spinel CoFe_2O_4 Nanorods. Advanced Materials, 2005, 17, 1415-1419.	11.1	100
17	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe_2 : enabling nanoscale direct write homo-junctions. Scientific Reports, 2016, 6, 27276.	1.6	99
18	Gold Coated Lanthanide Phosphate Nanoparticles for Targeted Alpha Generator Radiotherapy. PLoS ONE, 2013, 8, e54531.	1.1	99

#	ARTICLE	IF	CITATIONS
19	LaPO ₄ Nanoparticles Doped with Actinium-225 that Partially Sequester Daughter Radionuclides. <i>Bioconjugate Chemistry</i> , 2011, 22, 766-776.	1.8	96
20	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25368-25378.	1.5	91
21	Nanoscale thermometry via the fluorescence of YAG:Ce phosphor particles: measurements from 7 to 77ÅC. <i>Nanotechnology</i> , 2003, 14, 859-863.	1.3	90
22	Degradation of Trichloroethene with a Novel Ball Milled Fe@C Nanocomposite. <i>Journal of Hazardous Materials</i> , 2015, 300, 443-450.	6.5	87
23	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
24	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
25	A high conductivity oxide@sulfide composite lithium superionic conductor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4111-4116.	5.2	77
26	Support Shape Effect in Metal Oxide Catalysis: Ceria-Nanoshape-Supported Vanadia Catalysts for Oxidative Dehydrogenation of Isobutane. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1517-1522.	2.1	72
27	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
28	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
29	Oxygen@Functionalized Few@Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. <i>ChemSusChem</i> , 2013, 6, 840-846.	3.6	61
30	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
31	Solvent-type-dependent polymorphism and charge transport in a long fused-ring organic semiconductor. <i>Nanoscale</i> , 2014, 6, 449-456.	2.8	59
32	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
33	Identifying Active Functionalities on Few@Layered Graphene Catalysts for Oxidative Dehydrogenation of Isobutane. <i>ChemSusChem</i> , 2014, 7, 483-491.	3.6	56
34	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
35	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
36	Ternary behavior and systematic nanoscale manipulation of domain structures in P3HT/PCBM/P3HT-b-PEO films. <i>Journal of Materials Chemistry</i> , 2012, 22, 13013.	6.7	53

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37	Furan substituted diketopyrrolopyrrole and thienylenevinylene based low band gap copolymer for high mobility organic thin film transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 17284.	6.7	52
38	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
39	Antibacterial dental adhesive resins containing nitrogen-doped titanium dioxide nanoparticles. <i>Materials Science and Engineering C</i> , 2018, 93, 931-943.	3.8	51
40	Li-ion site disorder driven superionic conductivity in solid electrolytes: a first-principles investigation of Li_{3PS_4} . <i>Journal of Materials Chemistry A</i> , 2017, 5, 1153-1159.	5.2	50
41	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
42	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
43	Growth, Patterning, and One-Dimensional Electron Transport Properties of Self-Assembled Ag-TCNQF4 Organic Nanowires. <i>Chemistry of Materials</i> , 2009, 21, 4275-4281.	3.2	48
44	Cobalt iron-oxide nanoparticle modified poly(methyl methacrylate) nanodielectrics. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 843-852.	1.1	46
45	Magnetic properties of bio-synthesized zinc ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3043-3048.	1.0	46
46	Facile, alternative synthesis of lanthanum phosphate nanocrystals by ultrasonication. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 127-132.	5.0	41
47	In vivo SPECT/CT imaging and biodistribution using radioactive $\text{Cd}^{125\text{mTe}}/\text{ZnS}$ nanoparticles. <i>Nanotechnology</i> , 2007, 18, 175103.	1.3	40
48	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
49	Maskless Lithography and in situ Visualization of Conductivity of Graphene using Helium Ion Microscopy. <i>Scientific Reports</i> , 2015, 5, 11952.	1.6	38
50	Voltage gated inter-cation selective ion channels from graphene nanopores. <i>Nanoscale</i> , 2019, 11, 9856-9861.	2.8	37
51	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
52	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
53	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
54	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

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55	Injectable and Biodegradable Nanohybrid Polymers with Simultaneously Enhanced Stiffness and Toughness for Bone Repair. <i>Advanced Functional Materials</i> , 2012, 22, 3181-3190.	7.8	30
56	Ionic Conductance through Graphene: Assessing Its Applicability as a Proton Selective Membrane. <i>ACS Nano</i> , 2019, 13, 12109-12119.	7.3	28
57	Degeneration of biogenic superparamagnetic magnetite. <i>Geobiology</i> , 2009, 7, 25-34.	1.1	27
58	Modulation of release rate and barrier transport of Diclofenac incorporated in hydrophilic matrices: Role of cyclodextrins and implications in oral drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 76-82.	2.0	27
59	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
60	Sol-gel synthesis of nanocrystalline fayalite (Fe ₂ SiO ₄). <i>American Mineralogist</i> , 2012, 97, 653-656.	0.9	26
61	XANES Study of Hydrothermal Mo ^{VI} -Based Mixed Oxide M1-Phase Catalysts for the (Amm)oxidation of Propane. <i>Chemistry of Materials</i> , 2008, 20, 6611-6616.	3.2	25
62	Growth and Electrochemical Characterization of Carbon Nanospire Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, H558-H563.	1.3	24
63	Gold-coated lanthanide phosphate nanoparticles for an ²²⁵ Ac in vivo alpha generator. <i>Radiochimica Acta</i> , 2013, 101, 595-600.	0.5	23
64	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
65	Crystallite Sizes and Lattice Parameters of Nano-Biomagnetite Particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 8298-8306.	0.9	21
66	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
67	Graphene engineering by neon ion beams. <i>Nanotechnology</i> , 2016, 27, 125302.	1.3	21
68	Temperature dependence of polyhedral cage volumes in clathrate hydrates. <i>Canadian Journal of Physics</i> , 2003, 81, 183-189.	0.4	20
69	Galvanic synthesis of bi-modal porous metal nanostructures using aluminum nanoparticle templates. <i>Materials Letters</i> , 2012, 88, 143-147.	1.3	19
70	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
71	Magnetic alignment of SWCNTs decorated with Fe ₃ O ₄ to enhance mechanical properties of SC-15 epoxy. <i>AIP Advances</i> , 2013, 3, .	0.6	18
72	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

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73	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. <i>Journal of the American Chemical Society</i> , 2012, 134, 14353-14361.	6.6	17
74	Oxidative dehydrogenation of isobutane over vanadia catalysts supported by titania nanoshapes. <i>Catalysis Today</i> , 2016, 263, 84-90.	2.2	17
75	Polyol Synthesis of Magnetite Nanocrystals in a Thermostable Ionic Liquid. <i>Crystal Growth and Design</i> , 2017, 17, 1558-1567.	1.4	16
76	Magnetic and structural phase transitions in the spinel compound Fe _{1+x} Cr _{2-2x} O ₄ . <i>Physical Review B</i> , 2014, 89, .	1.1	15
77	Nano-scale synthesis of the complex silicate minerals forsterite and enstatite. <i>Journal of Colloid and Interface Science</i> , 2017, 495, 94-101.	5.0	15
78	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
79	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
80	Nanostructure enhanced ionic transport in fullerene reinforced solid polymer electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8266-8275.	1.3	13
81	Toward Environmentally Benign Oxidations: Bulk Mixed Mo _{1-x} V _x (Te _{1-x} Nb _x)O ₁₂ Phase Catalysts for the Selective Ammoxidation of Propane. <i>ChemSusChem</i> , 2008, 1, 519-523.	3.6	11
82	Utilizing AgCl:Ag and AgCl mesostructures as solid precursors in the formation of highly textured silver nanomaterials via electron-beam induced decomposition. <i>RSC Advances</i> , 2012, 2, 9359.	1.7	11
83	Optimization of a real-time high-throughput assay for assessment of Streptococcus mutans metabolism and screening of antibacterial dental adhesives. <i>Dental Materials</i> , 2020, 36, 353-365.	1.6	11
84	Self-Assembled Colloidal Crystals from ZrO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19456-19460.	1.2	10
85	Nanodielectrics for Cryogenic Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 2354-2358.	1.1	10
86	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
87	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
88	Structural Phase Transitions and Water Dynamics in Uranyl Fluoride Hydrates. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11900-11910.	1.1	9
89	Carbon Nanospikes on Silicon Wafer for Amperometric Biosensing Applications. , 2018, 2018, 4281-4284.		7
90	Work function measurements of clean and modified carbon nanospikes. <i>Carbon</i> , 2020, 168, 302-307.	5.4	7

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91	Applications of Nanoparticles in Scintillation Detectors. ACS Symposium Series, 2007, , 117-129.	0.5	5
92	Time-dependent water dynamics in hydrated uranyl fluoride. Molecular Physics, 2016, 114, 61-71.	0.8	5
93	Facile emulsion mediated synthesis of phase-pure diopside nanoparticles. Scientific Reports, 2018, 8, 3099.	1.6	5
94	Raman spectroscopic studies on structure I and structure II trimethylene oxide hydrate. Canadian Journal of Physics, 2005, 83, 941-949.	0.4	4
95	Ternary cadmium sulphide selenide quantum dots as new scintillation materials. Materials Technology, 2008, 23, 94-99.	1.5	4
96	Characterization of Bio-Synthesized Magnetic Nanoparticles. , 0, , .		2
97	(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
98	Adsorption of Molecular Nitrogen in Electrical Double Layers near Planar and Atomically Sharp Electrodes. Langmuir, 2018, 34, 14552-14561.	1.6	2
99	Structural hierarchy of nanocarbon in copper covecics. Applied Physics Letters, 2018, 113, 173102.	1.5	2
100	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
101	Geometry aids green carbon electrochemistry. Nature Catalysis, 2018, 1, 903-904.	16.1	1
102	Scanning Helium Ion Microscopy-Induced Secondary Electron Yields of Composite Materials. Microscopy and Microanalysis, 2015, 21, 1691-1692.	0.2	0
103	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
104	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