

# James D Riches

## List of Publications by Year in descending order

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53  
papers

3,376  
citations

218677

26  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

4991  
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid metal assisted sonocatalytic degradation of organic azo dyes to solid carbon particles. Chemical Communications, 2021, 57, 9296-9299.	4.1	15
2	A robust method for particulate detection of a genetic tag for 3D electron microscopy. ELife, 2021, 10, .	6.0	16
3	Androgens alter the heterogeneity of small extracellular vesicles and the small RNA cargo in prostate cancer. Journal of Extracellular Vesicles, 2021, 10, e12136.	12.2	15
4	Exclusion Zone Phenomena in Water—A Critical Review of Experimental Findings and Theories. International Journal of Molecular Sciences, 2020, 21, 5041.	4.1	27
5	Biowaste—Derived, Self—Organized Arrays of High—Performance 2D Carbon Emitters for Organic Light—Emitting Diodes. Advanced Materials, 2020, 32, e1906176.	21.0	27
6	Exclusion zone water is associated with material that exhibits proton diffusion but not birefringent properties. Fluid Phase Equilibria, 2018, 466, 103-109.	2.5	13
7	Gold Doping in a Layered Co—Ni Hydroxide System via Galvanic Replacement for Overall Electrochemical Water Splitting. Advanced Functional Materials, 2018, 28, 1804361.	14.9	51
8	Room Temperature Electrochemical Synthesis of Crystalline GaOOH Nanoparticles from Expanding Liquid Metals. Langmuir, 2018, 34, 7604-7611.	3.5	24
9	Computational prediction and experimental confirmation of rhombohedral structures in $\text{Bi}_{1.5}\text{CdM}_{1.5}\text{O}_7$ ( $\text{M} = \text{Nb}, \text{Ta}$ ) pyrochlores. RSC Advances, 2017, 7, 15632-15643.	3.6	9
10	Modulation of paracrine signaling by CD9 positive small extracellular vesicles mediates cellular growth of androgen deprived prostate cancer. Oncotarget, 2017, 8, 52237-52255.	1.8	55
11	Influence of biodiesel fuel composition on the morphology and microstructure of particles emitted from diesel engines. Carbon, 2016, 104, 179-189.	10.3	74
12	Binding of CFA/I Pili of Enterotoxigenic Escherichia coli to Asialo-GM1 Is Mediated by the Minor Pilin CfaE. Infection and Immunity, 2016, 84, 1642-1649.	2.2	11
13	Alloying Gold with Copper Makes for a Highly Selective Visible-Light Photocatalyst for the Reduction of Nitroaromatics to Anilines. ACS Catalysis, 2016, 6, 1744-1753.	11.2	164
14	Catalytic Transformation of Aliphatic Alcohols to Corresponding Esters in $\text{O}_2$ under Neutral Conditions Using Visible-Light Irradiation. Journal of the American Chemical Society, 2015, 137, 1956-1966.	13.7	116
15	Structural Analysis of the Roles of Influenza A Virus Membrane-Associated Proteins in Assembly and Morphology. Journal of Virology, 2015, 89, 8957-8966.	3.4	78
16	The use of an acetoacetyl—CoA synthase in place of a $\beta$ -ketothiolase enhances poly—hydroxybutyrate production in sugarcane mesophyll cells. Plant Biotechnology Journal, 2015, 13, 700-707.	8.3	21
17	The Structures of COPI-Coated Vesicles Reveal Alternate Coatomer Conformations and Interactions. Science, 2012, 336, 1451-1454.	12.6	71
18	Structure of the immature retroviral capsid at 8—Å resolution by cryo-electron microscopy. Nature, 2012, 487, 385-389.	27.8	152

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19	Structural dissection of Ebola virus and its assembly determinants using cryo-electron tomography. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4275-4280.	7.1	210
20	Cryo-Electron Tomography of Marburg Virus Particles and Their Morphogenesis within Infected Cells. PLoS Biology, 2011, 9, e1001196.	5.6	125
21	Clathrin-independent carriers form a high capacity endocytic sorting system at the leading edge of migrating cells. Journal of Cell Biology, 2010, 190, 675-691.	5.2	263
22	Conserved and Variable Features of Gag Structure and Arrangement in Immature Retrovirus Particles. Journal of Virology, 2010, 84, 11729-11736.	3.4	52
23	Electron Tomography Reveals the Steps in Filovirus Budding. PLoS Pathogens, 2010, 6, e1000875.	4.7	65
24	Structural Analysis of HIV-1 Maturation Using Cryo-Electron Tomography. PLoS Pathogens, 2010, 6, e1001215.	4.7	96
25	Structure and assembly of immature HIV. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11090-11095.	7.1	327
26	Computational Model of Membrane Fission Catalyzed by ESCRT-III. PLoS Computational Biology, 2009, 5, e1000575.	3.2	141
27	Correlative fluorescence and transmission electron microscopy: an elegant tool to study the actin cytoskeleton of whole-mount (breast) cancer cells. Journal of Microscopy, 2009, 235, 282-292.	1.8	9
28	Three-dimensional organization of fenestrae labyrinths in liver sinusoidal endothelial cells. Liver International, 2009, 29, 603-613.	3.9	39
29	Contrast transfer function correction applied to cryo-electron tomography and sub-tomogram averaging. Journal of Structural Biology, 2009, 168, 305-312.	2.8	77
30	Three-Dimensional Analysis of Budding Sites and Released Virus Suggests a Revised Model for HIV-1 Morphogenesis. Cell Host and Microbe, 2008, 4, 592-599.	11.0	208
31	Caveolin-1 is required for lateral line neuromast and notochord development. Journal of Cell Science, 2007, 120, 2151-2161.	2.0	60
32	Physical and Electrochemical Characterization of Nanocomposite Membranes of Nafion and Functionalized Silicon Oxide. Chemistry of Materials, 2007, 19, 2372-2381.	6.7	95
33	Hybrid organic-inorganic nanoparticles: controlled incorporation of gold nanoparticles into virus-like particles and application in surface-enhanced Raman spectroscopy. , 2006, 6413, 123.		0
34	Investigation of the role of cadmium sulfide in the surface passivation of lead sulfide quantum dots. Journal of Crystal Growth, 2004, 270, 380-383.	1.5	11
35	Formation of mesostructured titania thin films using isopropoxide precursors. Current Applied Physics, 2004, 4, 160-162.	2.4	8
36	A PbS quantum-cube: conducting polymer composite for photovoltaic applications. Current Applied Physics, 2004, 4, 320-322.	2.4	37

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37	Postsynthesis Stabilization of Free-standing Mesoporous Silica Films. <i>Langmuir</i> , 2004, 20, 2908-2914.	3.5	13
38	Hydrothermal seeded synthesis of mesoporous titania for application in dye-sensitised solar cells (DSSCs). <i>Journal of Materials Chemistry</i> , 2004, 14, 2917.	6.7	72
39	Growth of Boehmite Nanofibers by Assembling Nanoparticles with Surfactant Micelles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4245-4247.	2.6	106
40	Mesostructured Dye-Doped Titanium Dioxide for Micro-Optoelectronic Applications. <i>ChemPhysChem</i> , 2003, 4, 595-603.	2.1	85
41	Investigations of growth processes in Y-Ba-Cu-O materials by microstructural examination of quenched samples. <i>Superconductor Science and Technology</i> , 2002, 15, 499-504.	3.5	9
42	$\gamma$ -Alumina Nanofibers Prepared from Aluminum Hydrate with Poly(ethylene oxide) Surfactant. <i>Chemistry of Materials</i> , 2002, 14, 2086-2093.	6.7	248
43	Function elements of melt-textured YBCO for cryomagnetic applications. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 1163-1166.	1.2	18
44	Requirements on melt-textured Y-Ba-Cu-O for the use in magnetic bearings or electric motors. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 3501-3504.	1.7	10
45	Observation of exsolution textures within Ba $\delta$ -Cu $\delta$ -O-rich solidified melts of Y $\delta$ -Ba $\delta$ -Cu $\delta$ -O materials and their relationship to Y123 nucleation and texturing. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 331, 201-215.	1.2	7
46	Effects of PtO <sub>2</sub> and CeO <sub>2</sub> additives on the microstructures of the quenched melts of Y $\delta$ -Ba $\delta$ -Cu $\delta$ -O materials. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 336, 43-56.	1.2	11
47	Melt textured Y123 bulk and thick film. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 2485-2486.	1.2	0
48	Phase composition of the rapidly quenched melt of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> +20 mol% Y <sub>2</sub> BaCuO <sub>5</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1999, 312, 21-27.	1.2	6
49	Comments on the phase diagrams and crystallisation paths of Y $\delta$ -Ba $\delta$ -Cu $\delta$ -O materials. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 325, 181-200.	1.2	5
50	Binder effect on microstructure and properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> extruded wires. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 298, 159-165.	1.2	3
51	Microstructural studies of quenched partially-melted Y-123 materials and Y-123 with Y-211, PtO <sub>2</sub> and CeO <sub>2</sub> additions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998, 53, 138-142.	3.5	6
52	Studies of the phase evolution of YBCO materials with different additives. <i>Superconductor Science and Technology</i> , 1998, 11, 963-967.	3.5	3
53	Phase evolution of the quenched melt of with 20 mol% additions. <i>Superconductor Science and Technology</i> , 1998, 11, 830-836.	3.5	8