

# James D Riches

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

3,376  
citations

218592

26  
h-index

175177

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. <i>Chemical Communications</i> , 2021, 57, 9296-9299.   | 2.2  | 15        |
| 2  | A robust method for particulate detection of a genetic tag for 3D electron microscopy. <i>ELife</i> , 2021, 10, .  | 2.8  | 16        |
| 3  | Androgens alter the heterogeneity of small extracellular vesicles and the small RNA cargo in prostate cancer. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12136.   | 5.5  | 15        |
| 4  | Exclusion Zone Phenomena in Water—A Critical Review of Experimental Findings and Theories. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5041.  | 1.8  | 27        |
| 5  | Biowaste—Derived, Self—Organized Arrays of High—Performance 2D Carbon Emitters for Organic Light—Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e1906176.  | 11.1 | 27        |
| 6  | Exclusion zone water is associated with material that exhibits proton diffusion but not birefringent properties. <i>Fluid Phase Equilibria</i> , 2018, 466, 103-109.   | 1.4  | 13        |
| 7  | Gold Doping in a Layered Co—Ni Hydroxide System via Galvanic Replacement for Overall Electrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1804361.  | 7.8  | 51        |
| 8  | Room Temperature Electrochemical Synthesis of Crystalline GaOOH Nanoparticles from Expanding Liquid Metals. <i>Langmuir</i> , 2018, 34, 7604-7611.   | 1.6  | 24        |
| 9  | Computational prediction and experimental confirmation of rhombohedral structures in $\text{Bi}_{1.5}\text{CdM}_{1.5}\text{O}_7$ ( $M = \text{Nb}, \text{Ta}$ ) pyrochlores. <i>RSC Advances</i> , 2017, 7, 15632-15643. | 1.7  | 9         |
| 10 | Modulation of paracrine signaling by CD9 positive small extracellular vesicles mediates cellular growth of androgen deprived prostate cancer. <i>Oncotarget</i> , 2017, 8, 52237-52255.                                  | 0.8  | 55        |
| 11 | Influence of biodiesel fuel composition on the morphology and microstructure of particles emitted from diesel engines. <i>Carbon</i> , 2016, 104, 179-189.   | 5.4  | 74        |
| 12 | Binding of CFA/II Pili of Enterotoxigenic <i>Escherichia coli</i> to Asialo-GM1 Is Mediated by the Minor Pilin CfaE. <i>Infection and Immunity</i> , 2016, 84, 1642-1649.  | 1.0  | 11        |
| 13 | Alloying Gold with Copper Makes for a Highly Selective Visible-Light Photocatalyst for the Reduction of Nitroaromatics to Anilines. <i>ACS Catalysis</i> , 2016, 6, 1744-1753.   | 5.5  | 164       |
| 14 | Catalytic Transformation of Aliphatic Alcohols to Corresponding Esters in $\text{O}_2$ under Neutral Conditions Using Visible-Light Irradiation. <i>Journal of the American Chemical Society</i> , 2015, 137, 1956-1966. | 6.6  | 116       |
| 15 | Structural Analysis of the Roles of Influenza A Virus Membrane-Associated Proteins in Assembly and Morphology. <i>Journal of Virology</i> , 2015, 89, 8957-8966.   | 1.5  | 78        |
| 16 | The use of an acetoacetyl—CoA synthase in place of a $\beta$ -ketothiolase enhances poly—hydroxybutyrate production in sugarcane mesophyll cells. <i>Plant Biotechnology Journal</i> , 2015, 13, 700-707.                | 4.1  | 21        |
| 17 | The Structures of COPI-Coated Vesicles Reveal Alternate Coatomer Conformations and Interactions. <i>Science</i> , 2012, 336, 1451-1454.  | 6.0  | 71        |
| 18 | Structure of the immature retroviral capsid at 8—Å resolution by cryo-electron microscopy. <i>Nature</i> , 2012, 487, 385-389.   | 13.7 | 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. | 3.3 | 210       |
| 20 | Cryo-Electron Tomography of Marburg Virus Particles and Their Morphogenesis within Infected Cells. PLoS Biology, 2011, 9, e1001196.   | 2.6 | 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.  | 2.3 | 263       |
| 22 | Conserved and Variable Features of Gag Structure and Arrangement in Immature Retrovirus Particles. Journal of Virology, 2010, 84, 11729-11736.  | 1.5 | 52        |
| 23 | Electron Tomography Reveals the Steps in Filovirus Budding. PLoS Pathogens, 2010, 6, e1000875.  | 2.1 | 65        |
| 24 | Structural Analysis of HIV-1 Maturation Using Cryo-Electron Tomography. PLoS Pathogens, 2010, 6, e1001215.  | 2.1 | 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.  | 3.3 | 327       |
| 26 | Computational Model of Membrane Fission Catalyzed by ESCRT-III. PLoS Computational Biology, 2009, 5, e1000575.  | 1.5 | 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.           | 0.8 | 9         |
| 28 | Three-dimensional organization of fenestrae labyrinths in liver sinusoidal endothelial cells. Liver International, 2009, 29, 603-613.   | 1.9 | 39        |
| 29 | Contrast transfer function correction applied to cryo-electron tomography and sub-tomogram averaging. Journal of Structural Biology, 2009, 168, 305-312.  | 1.3 | 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.   | 5.1 | 208       |
| 31 | Caveolin-1 is required for lateral line neuromast and notochord development. Journal of Cell Science, 2007, 120, 2151-2161.   | 1.2 | 60        |
| 32 | Physical and Electrochemical Characterization of Nanocomposite Membranes of Nafion and Functionalized Silicon Oxide. Chemistry of Materials, 2007, 19, 2372-2381.   | 3.2 | 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.  | 0.7 | 11        |
| 35 | Formation of mesostructured titania thin films using isopropoxide precursors. Current Applied Physics, 2004, 4, 160-162.  | 1.1 | 8         |
| 36 | A PbS quantum-cube: conducting polymer composite for photovoltaic applications. Current Applied Physics, 2004, 4, 320-322.  | 1.1 | 37        |

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|----|--|-----|-----------|
| 37 | Postsynthesis Stabilization of Free-standing Mesoporous Silica Films. <i>Langmuir</i> , 2004, 20, 2908-2914.   | 1.6 | 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.   | 1.2 | 106       |
| 40 | Mesostructured Dye-Doped Titanium Dioxide for Micro-Optoelectronic Applications. <i>ChemPhysChem</i> , 2003, 4, 595-603.   | 1.0 | 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.  | 1.8 | 9         |
| 42 | $\beta$ -Alumina Nanofibers Prepared from Aluminum Hydrate with Poly(ethylene oxide) Surfactant. <i>Chemistry of Materials</i> , 2002, 14, 2086-2093.  | 3.2 | 248       |
| 43 | Function elements of melt-textured YBCO for cryomagnetic applications. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 1163-1166.  | 0.6 | 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.  | 1.1 | 10        |
| 45 | Observation of exsolution textures within Ba-Cu-O-rich solidified melts of Y-Ba-Cu-O materials and their relationship to Y123 nucleation and texturing. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 331, 201-215.                     | 0.6 | 7         |
| 46 | Effects of PtO <sub>2</sub> and CeO <sub>2</sub> additives on the microstructures of the quenched melts of Y-Ba-Cu-O materials. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 336, 43-56.   | 0.6 | 11        |
| 47 | Melt textured Y123 bulk and thick film. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 2485-2486.   | 0.6 | 0         |
| 48 | Phase composition of the rapidly quenched melt of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> +20 mol% Y <sub>2</sub> BaCuO <sub>5</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1999, 312, 21-27.            | 0.6 | 6         |
| 49 | Comments on the phase diagrams and crystallisation paths of Y-Ba-Cu-O materials. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 325, 181-200.  | 0.6 | 5         |
| 50 | Binder effect on microstructure and properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> x extruded wires. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 298, 159-165.                                     | 0.6 | 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. | 1.7 | 6         |
| 52 | Studies of the phase evolution of YBCO materials with different additives. <i>Superconductor Science and Technology</i> , 1998, 11, 963-967.   | 1.8 | 3         |
| 53 | Phase evolution of the quenched melt of with 20 mol% additions. <i>Superconductor Science and Technology</i> , 1998, 11, 830-836.  | 1.8 | 8         |