James D Riches

List of Publications by Year
in descending order

53	3,376	218592	175177
papers	citations	26 h-index	52 g-index

55	55	55	4991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Î³-Alumina Nanofibers Prepared from Aluminum Hydrate with Poly(ethylene oxide) Surfactant. Chemistry of Materials, 2002, 14, 2086-2093.	3.2	248
4	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
5	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
6	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.	5.5	164
7	Structure of the immature retroviral capsid at 8â€‰Ã… resolution by cryo-electron microscopy. Nature, 2012, 487, 385-389.	13.7	152
8	Computational Model of Membrane Fission Catalyzed by ESCRT-III. PLoS Computational Biology, 2009, 5, e1000575.	1.5	141
9	Cryo-Electron Tomography of Marburg Virus Particles and Their Morphogenesis within Infected Cells. PLoS Biology, 2011, 9, e1001196.	2.6	125
10	Catalytic Transformation of Aliphatic Alcohols to Corresponding Esters in O₂ under Neutral Conditions Using Visible-Light Irradiation. Journal of the American Chemical Society, 2015, 137, 1956-1966.	6.6	116
11	Growth of Boehmite Nanofibers by Assembling Nanoparticles with Surfactant Micelles. Journal of Physical Chemistry B, 2004, 108, 4245-4247.	1.2	106
12	Structural Analysis of HIV-1 Maturation Using Cryo-Electron Tomography. PLoS Pathogens, 2010, 6, e1001215.	2.1	96
13	Physical and Electrochemical Characterization of Nanocomposite Membranes of Nafion and Functionalized Silicon Oxide. Chemistry of Materials, 2007, 19, 2372-2381.	3.2	95
14	Mesostructured Dye-Doped Titanium Dioxide for Micro-Optoelectronic Applications. ChemPhysChem, 2003, 4, 595-603.	1.0	85
15	Structural Analysis of the Roles of Influenza A Virus Membrane-Associated Proteins in Assembly and Morphology. Journal of Virology, 2015, 89, 8957-8966.	1.5	78
16	Contrast transfer function correction applied to cryo-electron tomography and sub-tomogram averaging. Journal of Structural Biology, 2009, 168, 305-312.	1.3	77
17	Influence of biodiesel fuel composition on the morphology and microstructure of particles emitted from diesel engines. Carbon, 2016, 104, 179-189.	5.4	74
18	Hydrothermal seeded synthesis of mesoporous titania for application in dye-sensitised solar cells (DSSCs). Journal of Materials Chemistry, 2004, 14, 2917.	6.7	72

#	Article	IF	Citations
19	The Structures of COPI-Coated Vesicles Reveal Alternate Coatomer Conformations and Interactions. Science, 2012, 336, 1451-1454.	6.0	71
20	Electron Tomography Reveals the Steps in Filovirus Budding. PLoS Pathogens, 2010, 6, e1000875.	2.1	65
21	Caveolin-1 is required for lateral line neuromast and notochord development. Journal of Cell Science, 2007, 120, 2151-2161.	1.2	60
22	Modulation of paracrine signaling by CD9 positive small extracellular vesicles mediates cellular growth of androgen deprived prostate cancer. Oncotarget, 2017, 8, 52237-52255.	0.8	55
23	Conserved and Variable Features of Gag Structure and Arrangement in Immature Retrovirus Particles. Journal of Virology, 2010, 84, 11729-11736.	1.5	52
24	Gold Doping in a Layered Coâ€Ni Hydroxide System via Galvanic Replacement for Overall Electrochemical Water Splitting. Advanced Functional Materials, 2018, 28, 1804361.	7.8	51
25	Threeâ€dimensional organization of fenestrae labyrinths in liver sinusoidal endothelial cells. Liver International, 2009, 29, 603-613.	1.9	39
26	A PbS quantum-cube: conducting polymer composite for photovoltaic applications. Current Applied Physics, 2004, 4, 320-322.	1.1	37
27	Exclusion Zone Phenomena in Waterâ€”A Critical Review of Experimental Findings and Theories. International Journal of Molecular Sciences, 2020, 21, 5041.	1.8	27
28	Biowasteâ€Derived, Selfâ€Organized Arrays of Highâ€Performance 2D Carbon Emitters for Organic Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e1906176.	11.1	27
29	Room Temperature Electrochemical Synthesis of Crystalline GaOOH Nanoparticles from Expanding Liquid Metals. Langmuir, 2018, 34, 7604-7611.	1.6	24
30	The use of an acetoacetylâ€Co<scp>A</scp> synthase in place of a Î²â€ketothiolase enhances polyâ€3â€hydroxybutyrate production in sugarcane mesophyll cells. Plant Biotechnology Journal, 2015, 13, 700-707.	4.1	21
31	Function elements of melt-textured YBCO for cryomagnetic applications. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1163-1166.	0.6	18
32	A robust method for particulate detection of a genetic tag for 3D electron microscopy. ELife, 2021, 10, .	2.8	16
33	Liquid metal assisted sonocatalytic degradation of organic azo dyes to solid carbon particles. Chemical Communications, 2021, 57, 9296-9299.	2.2	15
34	Androgens alter the heterogeneity of small extracellular vesicles and the small RNA cargo in prostate cancer. Journal of Extracellular Vesicles, 2021, 10, e12136.	5.5	15
35	Postsynthesis Stabilization of Free-standing Mesoporous Silica Films. Langmuir, 2004, 20, 2908-2914.	1.6	13
36	Exclusion zone water is associated with material that exhibits proton diffusion but not birefringent properties. Fluid Phase Equilibria, 2018, 466, 103-109.	1.4	13

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37	Effects of PtO2 and CeO2 additives on the microstructures of the quenched melts of Yâ€“Baâ€“Cuâ€“O materials. Physica C: Superconductivity and Its Applications, 2000, 336, 43-56.	0.6	11
38	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
39	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.	1.0	11
40	Requirements on melt-textured Y-Ba-Cu-O for the use in magnetic bearings or electric motors. IEEE Transactions on Applied Superconductivity, 2001, 11, 3501-3504.	1.1	10
41	Investigations of growth processes in Y-Ba-Cu-O materials by microstructural examination of quenched samples. Superconductor Science and Technology, 2002, 15, 499-504.	1.8	9
42	Correlative fluorescence and transmission electron microscopy: an elegant tool to study the actin cytoskeleton of wholeâ€mount (breast) cancer cells. Journal of Microscopy, 2009, 235, 282-292.	0.8	9
43	Computational prediction and experimental confirmation of rhombohedral structures in Bi_{1.5}CdM_{1.5}O₇ (M = Nb, Ta) pyrochlores. RSC Advances, 2017, 7, 15632-15643.	1.7	9
44	Phase evolution of the quenched melt of with 20 mol% additions. Superconductor Science and Technology, 1998, 11, 830-836.	1.8	8
45	Formation of mesostructured titania thin films using isopropoxide precursors. Current Applied Physics, 2004, 4, 160-162.	1.1	8
46	Observation of exsolution textures within Baâ€“Cuâ€“O-rich solidified melts of Yâ€“Baâ€“Cuâ€“O materials and their relationship to Y123 nucleation and texturing. Physica C: Superconductivity and Its Applications, 2000, 331, 201-215.	0.6	7
47	Microstructural studies of quenched partially-melted Y-123 materials and Y-123 with Y-211, PtO2 and CeO2 additions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 53, 138-142.	1.7	6
48	Phase composition of the rapidly quenched melt of YBa2Cu3O7âˆ'y+20 mol% Y2BaCuO5. Physica C: Superconductivity and Its Applications, 1999, 312, 21-27.	0.6	6
49	Comments on the phase diagrams and crystallisation paths of Yâ€“Baâ€“Cuâ€“O materials. Physica C: Superconductivity and Its Applications, 1999, 325, 181-200.	0.6	5
50	Binder effect on microstructure and properties of YBa2Cu3O7âˆ'x extruded wires. Physica C: Superconductivity and Its Applications, 1998, 298, 159-165.	0.6	3
51	Studies of the phase evolution of YBCO materials with different additives. Superconductor Science and Technology, 1998, 11, 963-967.	1.8	3
52	Melt textured Y123 bulk and thick film. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2485-2486.	0.6	0
53	Hybrid organic-inorganic nanoparticles: controlled incorporation of gold nanoparticles into virus-like particles and application in surface-enhanced Raman spectroscopy. , 2006, 6413, 123.		0