

Richard R Vanfleet

List of Publications by Year in descending order

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papers

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citations

840776

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26
all docs

26
docs citations

26
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Nanotubes as a Framework for High-Aspect-Ratio MEMS Fabrication. Journal of Microelectromechanical Systems, 2010, 19, 75-82.	2.5	72
2	Carbon Nanotube-Templated Microfabrication of Porous Silicon-Carbon Materials with Application to Chemical Separations. Advanced Functional Materials, 2011, 21, 1132-1139.	14.9	66
3	Multi-instrument characterization of the surfaces and materials in microfabricated, carbon nanotube-templated thin layer chromatography plates. An analogy to "The Blind Men and the Elephant"™. Surface and Interface Analysis, 2013, 45, 1273-1282.	1.8	52
4	High Aspect Ratio Carbon Nanotube Membranes Decorated with Pt Nanoparticle Urchins for Micro Underwater Vehicle Propulsion via H_2O_2 Decomposition. ACS Nano, 2015, 9, 7791-7803.	14.6	51
5	Numerical calculation of axisymmetric non-neutral plasma equilibria. Physics of Fluids B, 1993, 5, 4267-4272.	1.7	42
6	Stable, microfabricated thin layer chromatography plates without volume distortion on patterned, carbon and Al_2O_3 -primed carbon nanotube forests. Journal of Chromatography A, 2012, 1257, 195-203.	3.7	42
7	Ozone priming of patterned carbon nanotube forests for subsequent atomic layer deposition-like deposition of SiO_2 for the preparation of microfabricated thin layer chromatography plates. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	1.2	30
8	Effect of iron catalyst thickness on vertically aligned carbon nanotube forest straightness for CNT-MEMS. Journal of Micromechanics and Microengineering, 2012, 22, 055004.	2.6	16
9	Mechanical Property Measurement of Carbon Infiltrated Carbon Nanotube Structures for Compliant Micromechanisms. Journal of Microelectromechanical Systems, 2014, 23, 1330-1339.	2.5	16
10	Fabrication of High Aspect Ratio Millimeter-Tall Free-Standing Carbon Nanotube-Based Microelectrode Arrays. ACS Biomaterials Science and Engineering, 2018, 4, 1900-1907.	5.2	16
11	Thin films of carbon nanotubes via ultrasonic spraying of suspensions in N-methyl-2-pyrrolidone and N-cyclohexyl-2-pyrrolidone. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, 011218.	1.2	13
12	Material Properties of Carbon-Infiltrated Carbon Nanotube-Templated Structures for Microfabrication of Compliant Mechanisms. , 2011, , .		11
13	Multi-instrument characterization of five nanodiamond samples: a thorough example of nanomaterial characterization. Analytical and Bioanalytical Chemistry, 2016, 408, 1107-1124.	3.7	11
14	Tissue-susceptibility matched carbon nanotube electrodes for magnetic resonance imaging. Journal of Magnetic Resonance, 2018, 295, 72-79.	2.1	9
15	High-Aspect-Ratio Metal Microfabrication by Nickel Electroplating of Patterned Carbon Nanotube Forests. Journal of Microelectromechanical Systems, 2015, 24, 1331-1337.	2.5	8
16	Exponential growth of an unstable $l=1$ diocotron mode for a hollow electron column in a warm fluid model. Physics of Fluids B, 1993, 5, 669-673.	1.7	7
17	Polymer molded templates for nanostructured amorphous silicon photovoltaics. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	2.1	7
18	High surface-area carbon microcantilevers. Nanoscale Advances, 2019, 1, 1148-1154.	4.6	5

#	ARTICLE	IF	CITATIONS
19	Porous Silica Nanotube Thin Films as Thermally Insulating Barrier Coatings. ACS Applied Nano Materials, 2020, 3, 3168-3173.	5.0	4
20	Penetration depth variation in atomic layer deposition on multiwalled carbon nanotube forests. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	3
21	Mechanically Robust Vertically Aligned Carbon Nanotube Composites for Applications in Ultralow Reflectance Optical Elements. ACS Applied Nano Materials, 2022, 5, 6989-6994.	5.0	3
22	Carbon monolith scaffolding for high volumetric capacity silicon Li-ion battery anodes. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 041802.	1.2	2
23	Visible and short-wavelength infrared light collimation through carbon nanotube, parallel-hole collimators. Optics Express, 2022, 30, 22679.	3.4	2
24	Thin-Film Carbon Nanofuses for Permanent Data Storage. ACS Omega, 2017, 2, 2432-2438.	3.5	1
25	Bulge Testing for Strength Metrics of Detector X-Ray Windows. Microscopy and Microanalysis, 2015, 21, 2005-2006.	0.4	0
26	Electrical conductivity across the alumina support layer following carbon nanotube growth. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, 052803.	1.2	0