

# Richard E Cavicchi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10708988/publications.pdf>

Version: 2024-02-01

10  
papers

465  
citations

1163117

8  
h-index

1474206

9  
g-index

10  
all docs

10  
docs citations

10  
times ranked

489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface state trapping models for SnO <sub>2</sub> -based microhotplate sensors. Sensors and Actuators B: Chemical, 2001, 77, 597-613.	7.8	148
2	Optimization of temperature programmed sensing for gas identification using micro-hotplate sensors. Sensors and Actuators B: Chemical, 1998, 53, 24-43.	7.8	123
3	A generic process of growing aligned carbon nanotube arrays on metals and metal alloys. Nanotechnology, 2007, 18, 185605.	2.6	60
4	Effect of Surface Wettability on Fast Transient Microboiling Behavior. Langmuir, 2003, 19, 6168-6177.	3.5	53
5	Bubble Nucleation and Growth Anomaly for a Hydrophilic Microheater Attributed to Metastable Nanobubbles. Physical Review Letters, 2007, 98, 124501.	7.8	28
6	New technique for visualizing microboiling phenomena and its application to water pulse heated by a thin metal film. Review of Scientific Instruments, 2006, 77, 063706.	1.3	23
7	Bubble nucleation, growth and surface temperature oscillations on a rapidly heated microscale surface immersed in a bulk subcooled but locally superheated liquid under partial vacuum. International Journal of Heat and Mass Transfer, 2011, 54, 5612-5622.	4.8	13
8	Direct synthesis of tin oxide nanotubes on microhotplates using carbon nanotubes as templates. Journal of Materials Research, 2011, 26, 430-436.	2.6	9
9	Dynamic Modeling and Optimization of Micro-Hotplate Chemical Gas Sensors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 91-95.	0.4	8
10	<title>Quantification of a single-component gas in air with a microhotplate gas sensor using partial least squares techniques</title>. , 1999, 3856, 162.		0