

Cees J M Van Rijn

List of Publications by Year in descending order

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103
papers

4,460
citations

101543

36
h-index

110387

64
g-index

106
all docs

106
docs citations

106
times ranked

5879
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation methods of alginate nanoparticles. <i>Advances in Colloid and Interface Science</i> , 2014, 209, 163-171.	14.7	341
2	Small droplet aerosols in poorly ventilated spaces and SARS-CoV-2 transmission. <i>Lancet Respiratory Medicine</i> , 2020, 8, 658-659.	10.7	305
3	Silicon Nitride Nanosieve Membrane. <i>Nano Letters</i> , 2004, 4, 283-287.	9.1	253
4	The detection of EpCAM+ and EpCAM ⁺ circulating tumor cells. <i>Scientific Reports</i> , 2015, 5, 12270.	3.3	223
5	Development and applications of very high flux microfiltration membranes. <i>Journal of Membrane Science</i> , 1998, 150, 1-8.	8.2	167
6	Ultralow-power hydrogen sensing with single palladium nanowires. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	148
7	Stable Protein-Repellent Zwitterionic Polymer Brushes Grafted from Silicon Nitride. <i>Langmuir</i> , 2011, 27, 2587-2594.	3.5	126
8	Phase Separation Micromolding of PS ^{1/4} M. <i>Advanced Materials</i> , 2003, 15, 1385-1389.	21.0	118
9	Phase Separation Micromolding: A New Generic Approach for Microstructuring Various Materials. <i>Small</i> , 2005, 1, 645-655.	10.0	118
10	Stability of Oriented Silicalite-1 Films in View of Zeolite Membrane Preparation. <i>Zeolites</i> , 1997, 19, 13-20.	0.5	112
11	Deflection and maximum load of microfiltration membrane sieves made with silicon micromachining. <i>Journal of Microelectromechanical Systems</i> , 1997, 6, 48-54.	2.5	101
12	Self-seeding microwell chip for the isolation and characterization of single cells. <i>Lab on A Chip</i> , 2015, 15, 3039-3046.	6.0	88
13	Hydrolytic and Thermal Stability of Organic Monolayers on Various Inorganic Substrates. <i>Langmuir</i> , 2014, 30, 5829-5839.	3.5	86
14	Aerosol persistence in relation to possible transmission of SARS-CoV-2. <i>Physics of Fluids</i> , 2020, 32, 107108.	4.0	84
15	Polymeric microsieves produced by phase separation micromolding. <i>Journal of Membrane Science</i> , 2006, 283, 411-424.	8.2	78
16	Microstructured hollow fibers for ultrafiltration. <i>Journal of Membrane Science</i> , 2010, 347, 32-41.	8.2	78
17	Nanosieves with microsystem technology for microfiltration applications. <i>Nanotechnology</i> , 1998, 9, 343-345.	2.6	76
18	Alginate submicron beads prepared through w/o emulsification and gelation with CaCl ₂ nanoparticles. <i>Food Hydrocolloids</i> , 2013, 31, 428-434.	10.7	70

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19	Fabrication of microsieves with sub-micron pore size by laser interference lithography. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 33-37.	2.6	65
20	Nanospheres of alginate prepared through w/o emulsification and internal gelation with nanoparticles of CaCO ₃ . <i>Food Hydrocolloids</i> , 2014, 40, 182-188.	10.7	61
21	Ultralow Adhesion and Friction of Fluoro-Hydro Alkyne-Derived Self-Assembled Monolayers on H-Terminated Si(111). <i>Langmuir</i> , 2012, 28, 17690-17700.	3.5	60
22	Microsieves made with laser interference lithography for micro-filtration applications. <i>Journal of Micromechanics and Microengineering</i> , 1999, 9, 170-172.	2.6	59
23	Efficient Functionalization of Oxide-Free Silicon(111) Surfaces: Thiol-ene versus Thiol-ene Click Chemistry. <i>Langmuir</i> , 2013, 29, 4535-4542.	3.5	59
24	Arrays of Dual Nanomechanical Resonators for Selective Biological Detection. <i>Analytical Chemistry</i> , 2009, 81, 2274-2279.	6.5	58
25	Biosensor-based detection of tuberculosis. <i>RSC Advances</i> , 2016, 6, 17759-17771.	3.6	56
26	Shadow-Mask Evaporation through Monolayer-Modified Nanostencils. <i>Nano Letters</i> , 2002, 2, 1339-1343.	9.1	53
27	Bioconjugation of Protein-Repellent Zwitterionic Polymer Brushes Grafted from Silicon Nitride. <i>Langmuir</i> , 2012, 28, 604-610.	3.5	53
28	High throughput vegetable oil-in-water emulsification with a high porosity micro-engineered membrane. <i>Journal of Membrane Science</i> , 2010, 347, 1-7.	8.2	51
29	Filtration of lager beer with microsieves: flux, permeate haze and in-line microscope observations. <i>Journal of Membrane Science</i> , 2002, 196, 159-170.	8.2	49
30	Microsystem technology for high-flux hydrogen separation membranes. <i>Journal of Membrane Science</i> , 2004, 243, 203-213.	8.2	44
31	The Emerging Role of Circulating Tumor Cell Detection in Genitourinary Cancer. <i>Journal of Urology</i> , 2012, 188, 21-26.	0.4	44
32	Adhesion and Friction Properties of Polymer Brushes: Fluoro versus Nonfluoro Polymer Brushes at Varying Thickness. <i>Langmuir</i> , 2014, 30, 2068-2076.	3.5	44
33	High throughput optical readout of dense arrays of nanomechanical systems for sensing applications. <i>Review of Scientific Instruments</i> , 2010, 81, 125109.	1.3	42
34	Microfabrication of palladium-silver alloy membranes for hydrogen separation. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 622-629.	2.5	40
35	Microfabricated Palladium-Silver Alloy Membranes and Their Application in Hydrogen Separation. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 4182-4187.	3.7	39
36	Evaluation of microsieve membrane design. <i>Journal of Membrane Science</i> , 2006, 278, 344-348.	8.2	38

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37	High performance micro-engineered hollow fiber membranes by smart spinneret design. <i>Journal of Membrane Science</i> , 2005, 256, 209-209.	8.2	36
38	Mono-Fluorinated Alkyne-Derived SAMs on Oxide-Free Si(111) Surfaces: Preparation, Characterization and Tuning of the Si Workfunction. <i>Langmuir</i> , 2013, 29, 570-580.	3.5	36
39	Shedding Light on Axial Stress Effect on Resonance Frequencies of Nanocantilevers. <i>ACS Nano</i> , 2011, 5, 4269-4275.	14.6	34
40	Protein-Repellent Silicon Nitride Surfaces: UV-Induced Formation of Oligoethylene Oxide Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 697-704.	8.0	33
41	Microsieve supporting palladium-silver alloy membrane and application to hydrogen separation. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 113-124.	2.5	32
42	Carbon dioxide sensing with sulfonated polyaniline. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 123-130.	7.8	32
43	Covalently Attached Organic Monolayers onto Silicon Carbide from 1-Alkynes: Molecular Structure and Tribological Properties. <i>Langmuir</i> , 2013, 29, 4019-4031.	3.5	32
44	Hexadecadienyl Monolayers on Hydrogen-Terminated Si(111): Faster Monolayer Formation and Improved Surface Coverage Using the Enyne Moiety. <i>Langmuir</i> , 2012, 28, 6577-6588.	3.5	31
45	Adhesion and Friction Properties of Fluoropolymer Brushes: On the Tribological Inertness of Fluorine. <i>Langmuir</i> , 2014, 30, 12532-12540.	3.5	31
46	Determination of particle-release conditions in microfiltration: a simple single-particle model tested on a model membrane. <i>Journal of Membrane Science</i> , 2000, 180, 15-28.	8.2	30
47	Carbon dioxide detection with polyethylenimine blended with polyelectrolytes. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 452-459.	7.8	30
48	Capture of Tumor Cells on Anti-EpCAM-Functionalized Poly(acrylic acid)-Coated Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14349-14356.	8.0	30
49	Self-Assembled Monolayer Coatings on Nanostencils for the Reduction of Materials Adhesion. <i>Advanced Functional Materials</i> , 2003, 13, 219-224.	14.9	29
50	High-Flux Palladium Membranes Based on Microsystem Technology. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 4768-4772.	3.7	29
51	Reducing aerosol transmission of SARS-CoV-2 in hospital elevators. <i>Indoor Air</i> , 2020, 30, 1065-1066.	4.3	29
52	Chemical and Thermal Stability of Alkylsilane Based Coatings for Membrane Emulsification. <i>Advanced Engineering Materials</i> , 2004, 6, 749-754.	3.5	28
53	Laser interference as a lithographic nanopatterning tool. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2006, 5, 011012.	0.9	28
54	Measurement of small droplet aerosol concentrations in public spaces using handheld particle counters. <i>Physics of Fluids</i> , 2020, 32, 121707.	4.0	28

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55	Wet and dry etching techniques for the release of sub-micrometre perforated membranes. <i>Journal of Micromechanics and Microengineering</i> , 2000, 10, 171-174.	2.6	27
56	Porous microcapsule formation with microsieve emulsification. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 453-457.	9.4	26
57	High-flux palladium-silver alloy membranes fabricated by microsystem technology. <i>Desalination</i> , 2002, 147, 417-423.	8.2	25
58	In Vitro Performance Testing of the Novel Medspray [®] Wet Aerosol Inhaler Based on the Principle of Rayleigh Break-up. <i>Pharmaceutical Research</i> , 2008, 25, 1186-1192.	3.5	22
59	Si-Supported Mesoporous and Microporous Oxide Interconnects as Electrophoretic Gates for Application in Microfluidic Devices. <i>Analytical Chemistry</i> , 2005, 77, 178-184.	6.5	21
60	Intrinsic and Ionic Conduction in Humidity-Sensitive Sulfonated Polyaniline. <i>Electrochimica Acta</i> , 2014, 127, 106-114.	5.2	21
61	Gas sensing performance at room temperature of nanogap interdigitated electrodes for detection of acetone at low concentration. <i>RSC Advances</i> , 2017, 7, 50279-50286.	3.6	21
62	Microcapsules with a pH responsive polymer: Influence of the encapsulated oil on the capsule morphology. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 175-180.	5.0	18
63	Microfiltration membrane sieve with silicon micromachining for industrial and biomedical applications. , 0, , .		16
64	Si-Compatible Ion-Selective Oxide Interconnects with High Tunability. <i>Advanced Materials</i> , 2004, 16, 900-904.	21.0	16
65	The nanofabrication of Pt nanowire arrays at the wafer-scale and its application in glucose detection. <i>Journal of Family Business Management</i> , 2010, 1, 015011.	3.4	16
66	Utilization of geometric light trapping in thin film silicon solar cells: simulations and experiments. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 540-547.	8.1	16
67	Food-Grade Submicrometer Particles from Salts Prepared Using Ethanol-in-Oil Mixtures. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 8501-8509.	5.2	15
68	Correlation of chain dynamics and counterion relaxation in semidilute polyelectrolyte solutions. <i>The Journal of Physical Chemistry</i> , 1989, 93, 5284-5291.	2.9	13
69	Concentration-dependent main-chain dynamics of sodium polyacrylate as probed by NMR in the semi-dilute regime. <i>The Journal of Physical Chemistry</i> , 1987, 91, 203-210.	2.9	11
70	Fluorinated alkyne-derived monolayers on oxide-free silicon nanowires via one-step hydrosilylation. <i>Applied Surface Science</i> , 2016, 387, 1202-1210.	6.1	11
71	A low-power readout circuit for nanowire based hydrogen sensor. <i>Microelectronics Journal</i> , 2010, 41, 733-739.	2.0	9
72	16 kDa Heat Shock Protein from Heat-Inactivated <i>Mycobacterium tuberculosis</i> Is a Homodimer â€“ Suitability for Diagnostic Applications with Specific Llama VHH Monoclonals. <i>PLoS ONE</i> , 2013, 8, e64040.	2.5	8

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73	Flow-through Microbial Capture by Antibody-Coated Microsieves. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400292.	3.7	8
74	Temperature balanced hydrogen sensor system with coupled palladium nanowires. <i>Sensors and Actuators A: Physical</i> , 2015, 226, 98-106.	4.1	8
75	Preparation and gas sensing properties of nanocomposite polymers on micro-Interdigitated electrodes for detection of volatile organic compounds at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 1098-1104.	7.8	8
76	Self-similar jet evolution after drop impact on a liquid surface. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	8
77	Ultra low power temperature compensation method for palladium nanowire grid. <i>Procedia Engineering</i> , 2010, 5, 184-187.	1.2	7
78	High-frequency flow reversal for continuous microfiltration of milk with microsieves. <i>Journal of Membrane Science</i> , 2015, 494, 121-129.	8.2	7
79	A novel structured plastic substrate for light confinement in thin film silicon solar cells by a geometric optical effect. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2308-2312.	3.1	5
80	A generic microfluidic biosensor of G protein-coupled receptor activation – impedance measurements of reversible morphological changes of reverse transfected HEK293 cells on microelectrodes. <i>RSC Advances</i> , 2015, 5, 52563-52570.	3.6	5
81	Gas-shell-encapsulation of Activated Carbon to Reduce Fouling and Increase the Efficacy of Volatile Organic Compound Removal. <i>Colloids and Interface Science Communications</i> , 2017, 18, 1-4.	4.1	5
82	<i>In Vivo</i> Performance Testing of the Novel Medspray [®] Wet Aerosol Inhaler. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2009, 22, 317-321.	1.4	4
83	Detection of DNA of genetically modified maize by a silicon nanowire field-effect transistor. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2011, 2, 025010.	1.5	4
84	Droplet Formation by Confined Liquid Threads inside Microchannels. <i>Langmuir</i> , 2017, 33, 10035-10040.	3.5	4
85	Erythrocyte fouling on micro-engineered membranes. <i>Biomedical Microdevices</i> , 2018, 20, 55.	2.8	4
86	The influence of the counterion on the relaxation of polyacrylate deuterons. <i>Chemical Physics Letters</i> , 1987, 135, 57-61.	2.6	3
87	Emanating Jets As Shaped by Surface Tension Forces. <i>Langmuir</i> , 2018, 34, 13837-13844.	3.5	3
88	Polymer microspheres with structured surfaces. <i>Chemical Engineering Journal</i> , 2011, 175, 561-568.	12.7	2
89	Improving the limits of detection in potentiometric sensors. <i>Measurement Science and Technology</i> , 2015, 26, 125104.	2.6	2
90	Feasibility of a simple microsieve-based immunoassay platform. <i>Journal of Immunological Methods</i> , 2016, 437, 21-27.	1.4	2

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91	Viscous Liquid Threads with Inner Fluid Flow Inside Microchannels. ACS Omega, 2019, 4, 9800-9806.	3.5	2
92	Co-current crossflow microfiltration in a microchannel. Biomedical Microdevices, 2019, 21, 12.	2.8	2
93	A microsieve for leukocyte depletion of erythrocyte concentrates. , 0, , .		1
94	Fabrication and characterization of MEMS based wafer-scale palladium-silver alloy membranes for hydrogen separation and hydrogenation/dehydrogenation reactions. , 0, , .		1
95	A hydrogen separation module based on wafer-scale micromachined palladium-silver alloy membranes. , 0, , .		1
96	Component design and testing for a miniaturised autonomous sensor based on a nanowire materials platform. Microsystem Technologies, 2014, 20, 971-988.	2.0	1
97	Abstract 4825: Circulating tumor cells in metastatic lung cancer enriched by EpCAM expression and physical characteristics. Cancer Research, 2014, 74, 4825-4825.	0.9	1
98	Abstract 1606: Single cell isolation and DNA analysis from circulating tumor cells using self-sorting nanowell plates. , 2015, , .		1
99	Abstract 377: EpCAM+ and EpCAM- circulating tumor cells in metastatic lung cancer. , 2015, , .		1
100	Nano- and micro-engineered membranes: principles and applications in the food and beverage industries. , 2012, , 413-436.		0
101	Microsieves: Flow-Through Microbial Capture by Antibody-Coated Microsieves (Adv. Mater. Interfaces) Tj ETQq1 1 0,784314 rgBT /Overl 3.7		0
102	Fabrication of Nanowires for Biosensing Applications. , 2012, , .		0
103	Abstract 3065: Single cell isolation and DNA analysis from circulating tumor cells using a self sorting nanowell plate. , 2014, , .		0