

Fredrik Nikolajeff

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11382290/publications.pdf>

Version: 2024-02-01

55
papers

1,830
citations

236925

25
h-index

276875

41
g-index

58
all docs

58
docs citations

58
times ranked

2527
citing authors

#	ARTICLE	IF	CITATIONS
1	Cassie-Wenzel and Wenzel-Cassie transitions on immersed superhydrophobic surfaces under hydrostatic pressure. <i>Soft Matter</i> , 2011, 7, 104-109.	2.7	169
2	The lipid peroxidation products 4-oxo-2-nonenal and 4-hydroxy-2-nonenal promote the formation of α -synuclein oligomers with distinct biochemical, morphological, and functional properties. <i>Free Radical Biology and Medicine</i> , 2011, 50, 428-437.	2.9	121
3	A hybrid poly(dimethylsiloxane) microsystem for on-chip whole blood filtration optimized for steroid screening. <i>Biomedical Microdevices</i> , 2006, 8, 73-79.	2.8	105
4	The Evolving Landscape of Exosomes in Neurodegenerative Diseases: Exosomes Characteristics and a Promising Role in Early Diagnosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 440.	4.1	84
5	On-Chip Electric Field Driven Electrochemical Detection Using a Poly(dimethylsiloxane) Microchannel with Gold Microband Electrodes. <i>Analytical Chemistry</i> , 2008, 80, 3622-3632.	6.5	79
6	Biomaterialization process in hard tissues: The interaction complexity within protein and inorganic counterparts. <i>Acta Biomaterialia</i> , 2021, 120, 20-37.	8.3	73
7	On-Chip Fluorescence-Activated Cell Sorting by an Integrated Miniaturized Ultrasonic Transducer. <i>Analytical Chemistry</i> , 2009, 81, 5188-5196.	6.5	68
8	Sheathless Electrospray from Polymer Microchips. <i>Analytical Chemistry</i> , 2003, 75, 3934-3940.	6.5	67
9	Fabrication of a paraffin actuator using hot embossing of polycarbonate. <i>Sensors and Actuators A: Physical</i> , 2003, 103, 307-316.	4.1	61
10	From Hydrophilic to Superhydrophobic: Fabrication of Micrometer-Sized Nail-Head-Shaped Pillars in Diamond. <i>Langmuir</i> , 2010, 26, 889-893.	3.5	59
11	Neuronal exosomes in saliva of Parkinson's disease patients: A pilot study. <i>Parkinsonism and Related Disorders</i> , 2019, 67, 21-23.	2.2	57
12	Poly(dimethylsiloxane) microchip: microchannel with integrated open electrospray tip. <i>Lab on A Chip</i> , 2004, 4, 322.	6.0	53
13	Anisotropic dry etching of boron doped single crystal CVD diamond. <i>Carbon</i> , 2005, 43, 1839-1842.	10.3	53
14	Role of Infrared Spectroscopy and Imaging in Cancer Diagnosis. <i>Current Medicinal Chemistry</i> , 2018, 25, 1055-1072.	2.4	53
15	Electrokinetic-driven microfluidic system in poly(dimethylsiloxane) for mass spectrometry detection integrating sample injection, capillary electrophoresis, and electrospray emitter on-chip. <i>Electrophoresis</i> , 2005, 26, 4674-4683.	2.4	47
16	Effective mixing of laminar flows at a density interface by an integrated ultrasonic transducer. <i>Lab on A Chip</i> , 2009, 9, 297-304.	6.0	47
17	Diamonds Are a Spectroscopist's Best Friend: Thin-Film Diamond Mid-Infrared Waveguides for Advanced Chemical Sensors/Biosensors. <i>Analytical Chemistry</i> , 2014, 86, 8136-8141.	6.5	43
18	Transfer of continuous-relief diffractive structures into diamond by use of inductively coupled plasma dry etching. <i>Optics Letters</i> , 2001, 26, 1752.	3.3	42

#	ARTICLE	IF	CITATIONS
19	The lipid peroxidation metabolite 4-oxo-2-nonenal cross-links α -synuclein causing rapid formation of stable oligomers. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 872-876.	2.1	37
20	Diffraction microlenses replicated in fused silica for excimer laser-beam homogenizing. <i>Applied Optics</i> , 1997, 36, 8481.	2.1	35
21	A PDMS-based disposable microfluidic sensor for CD4+ lymphocyte counting. <i>Biomedical Microdevices</i> , 2008, 10, 851-857.	2.8	34
22	A novel approach to correlate the salivary exosomes and their protein cargo in the progression of cognitive impairment into Alzheimer's disease. <i>Journal of Neuroscience Methods</i> , 2021, 347, 108980.	2.5	30
23	Mid-Infrared thin-film diamond waveguides combined with tunable quantum cascade lasers for analyzing the secondary structure of proteins. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2117-2123.	1.8	29
24	Thermoplastic Microfluidic Platform for Single-Molecule Detection, Cell Culture, and Actuation. <i>Analytical Chemistry</i> , 2005, 77, 7122-7130.	6.5	27
25	Bioactivated PDMS microchannel evaluated as sensor for human CD4+ cells – The concept of a point-of-care method for HIV monitoring. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 847-855.	7.8	27
26	Bioactive heparin immobilized onto microfluidic channels in poly(dimethylsiloxane) results in hydrophilic surface properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 46, 240-247.	5.0	26
27	Instant oxidation of closed microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, N16-N21.	2.6	23
28	Off-pathway α -synuclein oligomers seem to alter α -synuclein turnover in a cell model but lack seeding capability <i>in vivo</i> . <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2013, 20, 233-244.	3.0	22
29	MEMS-based VCSEL beam steering using replicated polymer diffractive lens. <i>Sensors and Actuators A: Physical</i> , 2008, 142, 336-345.	4.1	21
30	Functionality and stability of heparin immobilized onto poly(dimethylsiloxane). <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 45, 76-81.	5.0	19
31	Waveguides in polycrystalline diamond for mid-IR sensing. <i>Optical Materials Express</i> , 2016, 6, 1286.	3.0	19
32	Sample pretreatment on a microchip with an integrated electrospray emitter. <i>Electrophoresis</i> , 2006, 27, 2075-2082.	2.4	18
33	Changes in secondary structure of α -synuclein during oligomerization induced by reactive aldehydes. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 336-341.	2.1	18
34	Altered neural cell junctions and ion-channels leading to disrupted neuron communication in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2022, 8, .	5.3	15
35	Polycrystalline Diamond Thin-Film Waveguides for Mid-Infrared Evanescent Field Sensors. <i>ACS Omega</i> , 2018, 3, 6190-6198.	3.5	14
36	Characterization of protein extracts from different types of human teeth and insight in biomineralization. <i>Scientific Reports</i> , 2019, 9, 9314.	3.3	14

#	ARTICLE	IF	CITATIONS
37	Fabrication of boron doped diamond microband electrodes for electrochemical detection in a microfluidic channel. <i>Diamond and Related Materials</i> , 2011, 20, 1121-1124.	3.9	13
38	Gelsolin co-occurs with Lewy bodies in vivo and accelerates α -synuclein aggregation in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 32-38.	2.1	12
39	Designed protein binders in combination with nanocrystalline diamond for use in high-sensitivity biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1643-1651.	3.7	12
40	Mapping the Inorganic and Proteomic Differences among Different Types of Human Teeth: A Preliminary Compositional Insight. <i>Biomolecules</i> , 2020, 10, 1540.	4.0	12
41	On the integration of flexible circuit boards with hot embossed thermoplastic structures for actuator purposes. <i>Sensors and Actuators A: Physical</i> , 2006, 125, 534-547.	4.1	11
42	Nanocrystalline diamond sensor targeted for selective CRP detection: an ATR-FTIR spectroscopy study. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3675-3680.	3.7	11
43	A general strategy for template-free and low-cost synthesis of inorganic hollow spheres. <i>Powder Technology</i> , 2017, 319, 163-171.	4.2	8
44	Microreplication in a silicon processing compatible polymer material. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, S116-S121.	2.6	7
45	Novel Insights into Regulation of Human Teeth Biomineralization: Deciphering the Role of Post-Translational Modifications in a Tooth Protein Extract. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4035.	4.1	7
46	Replication of continuous-profiled micro-optical elements for silicon integration. <i>Applied Optics</i> , 2006, 45, 83.	2.1	6
47	Template-free synthesis of phosphate-based spheres via modified supersaturated phosphate buffer solutions. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 99.	3.6	6
48	Corrosion Detection by Infrared Attenuated Total Reflection Spectroscopy via Diamond-Like Carbon-Coated Silicon Wafers and Iron-Sensitive Dyes. <i>Sensors</i> , 2019, 19, 3373.	3.8	6
49	Insights into Biochemical Alteration in Cancer-Associated Fibroblasts by using Novel Correlative Spectroscopy. <i>ChemistryOpen</i> , 2017, 6, 149-157.	1.9	5
50	A novel rapid synthesis, characterization and applications of calcium phosphate nanospheres from Baltic seawater. <i>Ceramics International</i> , 2018, 44, 9076-9079.	4.8	1
51	Rapid precipitation of Mg-doped fluoride-based submicron spheres and evolution study. <i>Journal of Solid State Chemistry</i> , 2018, 260, 142-146.	2.9	1
52	Fabrication of refractive and diffractive micro-optical structures in diamond. , 2002, , .		1
53	Diamond micro-optics for high-power lasers. , 2002, , .		0
54	Confocal data acquisition for digital quantification using amplified single molecule detection. , 2006, 6398, 222.		0

#	ARTICLE	IF	CITATIONS
55	Unstructured Proteins in Biological Structures: The Case of Human Teeth from a Protein Chemist's Perspective. FASEB Journal, 2019, 33, 1b195.	0.5	0