Fredrik Nikolajeff

List of Publications by Year
in descending order

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	Altered neural cell junctions and ion-channels leading to disrupted neuron communication in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2022, 8, .	5.3	15
2	Biomineralization process in hard tissues: The interaction complexity within protein and inorganic counterparts. Acta Biomaterialia, 2021, 120, 20-37.	8.3	73
3	A novel approach to correlate the salivary exosomes and their protein cargo in the progression of cognitive impairment into Alzheimerâ€™s disease. Journal of Neuroscience Methods, 2021, 347, 108980.	2.5	30
4	The Evolving Landscape of Exosomes in Neurodegenerative Diseases: Exosomes Characteristics and a Promising Role in Early Diagnosis. International Journal of Molecular Sciences, 2021, 22, 440.	4.1	84
5	Mapping the Inorganic and Proteomic Differences among Different Types of Human Teeth: A Preliminary Compositional Insight. Biomolecules, 2020, 10, 1540.	4.0	12
6	Characterization of protein extracts from different types of human teeth and insight in biomineralization. Scientific Reports, 2019, 9, 9314.	3.3	14
7	Neuronal exosomes in saliva of Parkinson's disease patients: A pilot study. Parkinsonism and Related Disorders, 2019, 67, 21-23.	2.2	57
8	Novel Insights into Regulation of Human Teeth Biomineralization: Deciphering the Role of Post-Translational Modifications in a Tooth Protein Extract. International Journal of Molecular Sciences, 2019, 20, 4035.	4.1	7
9	Corrosion Detection by Infrared Attenuated Total Reflection Spectroscopy via Diamond-Like Carbon-Coated Silicon Wafers and Iron-Sensitive Dyes. Sensors, 2019, 19, 3373.	3.8	6
10	Unstructured Proteins in Biological Structures: The Case of Human Teeth from a Protein Chemist's Perspective. FASEB Journal, 2019, 33, lb195.	0.5	0
11	A novel rapid synthesis, characterization and applications of calcium phosphate nanospheres from Baltic seawater. Ceramics International, 2018, 44, 9076-9079.	4.8	1
12	Rapid precipitation of Mg-doped fluoride-based submicron spheres and evolution study. Journal of Solid State Chemistry, 2018, 260, 142-146.	2.9	1
13	Role of Infrared Spectroscopy and Imaging in Cancer Diagnosis. Current Medicinal Chemistry, 2018, 25, 1055-1072.	2.4	53
14	Polycrystalline Diamond Thin-Film Waveguides for Mid-Infrared Evanescent Field Sensors. ACS Omega, 2018, 3, 6190-6198.	3.5	14
15	Insights into Biochemical Alteration in Cancer-Associated Fibroblasts by using Novel Correlative Spectroscopy. ChemistryOpen, 2017, 6, 149-157.	1.9	5
16	A general strategy for template-free and low-cost synthesis of inorganic hollow spheres. Powder Technology, 2017, 319, 163-171.	4.2	8
17	Template-free synthesis of phosphate-based spheres via modified supersaturated phosphate buffer solutions. Journal of Materials Science: Materials in Medicine, 2017, 28, 99.	3.6	6
18	Midâ€infrared thinâ€film diamond waveguides combined with tunable quantum cascade lasers for analyzing the secondary structure of proteins. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2117-2123.	1.8	29

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19	Nanocrystalline diamond sensor targeted for selective CRP detection: an ATR-FTIR spectroscopy study. Analytical and Bioanalytical Chemistry, 2016, 408, 3675-3680.	3.7	11
20	Waveguides in polycrystalline diamond for mid-IR sensing. Optical Materials Express, 2016, 6, 1286.	3.0	19
21	Changes in secondary structure of Î±-synuclein during oligomerization induced by reactive aldehydes. Biochemical and Biophysical Research Communications, 2015, 464, 336-341.	2.1	18
22	Diamonds Are a Spectroscopistâ€™s Best Friend: Thin-Film Diamond Mid-Infrared Waveguides for Advanced Chemical Sensors/Biosensors. Analytical Chemistry, 2014, 86, 8136-8141.	6.5	43
23	Off-pathwayÎ±-synuclein oligomers seem to alterÎ±-synuclein turnover in a cell model but lack seeding capabilityin vivo. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2013, 20, 233-244.	3.0	22
24	Designed protein binders in combination with nanocrystalline diamond for use in high-sensitivity biosensors. Analytical and Bioanalytical Chemistry, 2012, 404, 1643-1651.	3.7	12
25	Fabrication of boron doped diamond microband electrodes for electrochemical detection in a microfluidic channel. Diamond and Related Materials, 2011, 20, 1121-1124.	3.9	13
26	Cassieâ€“Wenzel and Wenzelâ€“Cassie transitions on immersed superhydrophobic surfaces under hydrostatic pressure. Soft Matter, 2011, 7, 104-109.	2.7	169
27	Gelsolin co-occurs with Lewy bodies in vivo and accelerates Î±-synuclein aggregation in vitro. Biochemical and Biophysical Research Communications, 2011, 412, 32-38.	2.1	12
28	The lipid peroxidation products 4-oxo-2-nonenal and 4-hydroxy-2-nonenal promote the formation of Î±-synuclein oligomers with distinct biochemical, morphological, and functional properties. Free Radical Biology and Medicine, 2011, 50, 428-437.	2.9	121
29	From Hydrophilic to Superhydrophobic: Fabrication of Micrometer-Sized Nail-Head-Shaped Pillars in Diamond. Langmuir, 2010, 26, 889-893.	3.5	59
30	On-Chip Fluorescence-Activated Cell Sorting by an Integrated Miniaturized Ultrasonic Transducer. Analytical Chemistry, 2009, 81, 5188-5196.	6.5	68
31	The lipid peroxidation metabolite 4-oxo-2-nonenal cross-links Î±-synuclein causing rapid formation of stable oligomers. Biochemical and Biophysical Research Communications, 2009, 378, 872-876.	2.1	37
32	Effective mixing of laminar flows at a density interface by an integrated ultrasonic transducer. Lab on A Chip, 2009, 9, 297-304.	6.0	47
33	A PDMS-based disposable microfluidic sensor for CD4+ lymphocyte counting. Biomedical Microdevices, 2008, 10, 851-857.	2.8	34
34	MEMS-based VCSEL beam steering using replicated polymer diffractive lens. Sensors and Actuators A: Physical, 2008, 142, 336-345.	4.1	21
35	On-Chip Electric Field Driven Electrochemical Detection Using a Poly(dimethylsiloxane) Microchannel with Gold Microband Electrodes. Analytical Chemistry, 2008, 80, 3622-3632.	6.5	79
36	Instant oxidation of closed microchannels. Journal of Micromechanics and Microengineering, 2007, 17, N16-N21.	2.6	23

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37	Bioactivated PDMS microchannel evaluated as sensor for human CD4+ cellsâ€"The concept of a point-of-care method for HIV monitoring. Sensors and Actuators B: Chemical, 2007, 123, 847-855.	7.8	27
38	Replication of continuous-profiled micro-optical elements for silicon integration. Applied Optics, 2006, 45, 83.	2.1	6
39	Confocal data acquisition for digital quantification using amplified single molecule detection. , 2006, 6398, 222.		0
40	On the integration of flexible circuit boards with hot embossed thermoplastic structures for actuator purposes. Sensors and Actuators A: Physical, 2006, 125, 534-547.	4.1	11
41	A hybrid poly(dimethylsiloxane) microsystem for on-chip whole blood filtration optimized for steroid screening. Biomedical Microdevices, 2006, 8, 73-79.	2.8	105
42	Sample pretreatment on a microchip with an integrated electrospray emitter. Electrophoresis, 2006, 27, 2075-2082.	2.4	18
43	Anisotropic dry etching of boron doped single crystal CVD diamond. Carbon, 2005, 43, 1839-1842.	10.3	53
44	Functionality and stability of heparin immobilized onto poly(dimethylsiloxane). Colloids and Surfaces B: Biointerfaces, 2005, 45, 76-81.	5.0	19
45	Bioactive heparin immobilized onto microfluidic channels in poly(dimethylsiloxane) results in hydrophilic surface properties. Colloids and Surfaces B: Biointerfaces, 2005, 46, 240-247.	5.0	26
46	Electrokinetic-driven microfluidic system in poly(dimethylsiloxane) for mass spectrometry detection integrating sample injection, capillary electrophoresis, and electrospray emitter on-chip. Electrophoresis, 2005, 26, 4674-4683.	2.4	47
47	Microreplication in a silicon processing compatible polymer material. Journal of Micromechanics and Microengineering, 2005, 15, S116-S121.	2.6	7
48	Thermoplastic Microfluidic Platform for Single-Molecule Detection, Cell Culture, and Actuation. Analytical Chemistry, 2005, 77, 7122-7130.	6.5	27
49	Poly(dimethylsiloxane) microchip: microchannel with integrated open electrospray tip. Lab on A Chip, 2004, 4, 322.	6.0	53
50	Fabrication of a paraffin actuator using hot embossing of polycarbonate. Sensors and Actuators A: Physical, 2003, 103, 307-316.	4.1	61
51	Sheathless Electrospray from Polymer Microchips. Analytical Chemistry, 2003, 75, 3934-3940.	6.5	67
52	Diamond micro-optics for high-power lasers. , 2002, , .		0
53	Fabrication of refractive and diffractive micro-optical structures in diamond. , 2002, , .		1
54	Transfer of continuous-relief diffractive structures into diamond by use of inductively coupled plasma dry etching. Optics Letters, 2001, 26, 1752.	3.3	42

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55	Diffractive microlenses replicated in fused silica for excimer laser-beam homogenizing. Applied Optics, 1997, 36, 8481.	2.1	35