

Artur Dybko

List of Publications by Year in descending order

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86
papers

1,865
citations

236612

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288905

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86
all docs

86
docs citations

86
times ranked

2453
citing authors

#	ARTICLE	IF	CITATIONS
1	Future Applications of MXenes in Biotechnology, Nanomedicine, and Sensors. Trends in Biotechnology, 2020, 38, 264-279.	4.9	161
2	2D Ti2C (MXene) as a novel highly efficient and selective agent for photothermal therapy. Materials Science and Engineering C, 2019, 98, 874-886.	3.8	159
3	Long-term three-dimensional cell culture and anticancer drug activity evaluation in a microfluidic chip. Biosensors and Bioelectronics, 2013, 40, 68-74.	5.3	87
4	All-solid-state miniaturised planar reference electrodes based on ionic liquids. Sensors and Actuators B: Chemical, 2006, 115, 552-557.	4.0	82
5	Spectrophotometric determination of dopamine in microliter scale using microfluidic system based on polymeric technology. Analytica Chimica Acta, 2005, 540, 153-157.	2.6	79
6	Assessment of water quality based on multiparameter fiber optic probe. Sensors and Actuators B: Chemical, 1998, 51, 208-213.	4.0	55
7	Uranyl salophenes as ionophores for phosphate-selective electrodes. Sensors and Actuators B: Chemical, 2000, 68, 313-318.	4.0	54
8	Potentiometric electronic tongue based on integrated array of microelectrodes. Sensors and Actuators B: Chemical, 2007, 127, 8-14.	4.0	50
9	3D lung spheroid cultures for evaluation of photodynamic therapy (PDT) procedures in microfluidic Lab-on-a-Chip system. Analytica Chimica Acta, 2017, 990, 110-120.	2.6	46
10	Graphene as a new material in anticancer therapy-in vitro studies. Sensors and Actuators B: Chemical, 2017, 243, 152-165.	4.0	44
11	Heart-on-a-Chip: An Investigation of the Influence of Static and Perfusion Conditions on Cardiac (H9C2) Cell Proliferation, Morphology, and Alignment. SLAS Technology, 2017, 22, 536-546.	1.0	41
12	Durable phosphate-selective electrodes based on uranyl salophenes. Analytica Chimica Acta, 2001, 432, 79-88.	2.6	39
13	Miniaturised all-solid-state potentiometric ion sensors based on PVC-membranes containing conducting polymers. Sensors and Actuators B: Chemical, 2004, 101, 207-212.	4.0	39
14	Efficient reagent immobilization procedure for ion-sensitive optomembranes. Sensors and Actuators B: Chemical, 1997, 39, 207-211.	4.0	38
15	Studies of anticancer drug cytotoxicity based on long-term HepG2 spheroid culture in a microfluidic system. Electrophoresis, 2017, 38, 1206-1216.	1.3	38
16	Microfluidic system with electrochemical and optical detection. Microelectronic Engineering, 2007, 84, 1741-1743.	1.1	35
17	Uric acid determination in a miniaturized flow system with dual optical detection. Sensors and Actuators B: Chemical, 2008, 130, 508-513.	4.0	31
18	Application of optical fibres in oxidation-reduction titrations. Sensors and Actuators B: Chemical, 1995, 29, 374-377.	4.0	30

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19	Towards advanced chemical microsensors – an overview. <i>Talanta</i> , 2004, 63, 33-39.	2.9	30
20	Studies on effectiveness of PTT on 3D tumor model under microfluidic conditions using aptamer-modified nanoshells. <i>Biosensors and Bioelectronics</i> , 2019, 126, 214-221.	5.3	29
21	The 10th anniversary of MXenes: Challenges and prospects for their surface modification toward future biotechnological applications. <i>Advanced Drug Delivery Reviews</i> , 2022, 182, 114099.	6.6	28
22	Errors in Chemical Sensor Measurements. <i>Sensors</i> , 2001, 1, 29-37.	2.1	27
23	Planar potentiometric sensors based on Au and Ag microelectrodes and conducting polymers for flow-cell analysis. <i>Analytica Chimica Acta</i> , 2005, 540, 167-172.	2.6	26
24	Porous crosslinked PDMS-microchannels coatings. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 68-72.	4.0	26
25	Architecture and method of fabrication PDMS system for uric acid determination. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 445-451.	4.0	25
26	A microfluidic system to study the cytotoxic effect of drugs: the combined effect of celecoxib and 5-fluorouracil on normal and cancer cells. <i>Mikrochimica Acta</i> , 2013, 180, 895-901.	2.5	25
27	Magnetic field-assisted selective delivery of doxorubicin to cancer cells using magnetoliposomes as drug nanocarriers. <i>Nanotechnology</i> , 2019, 30, 315101.	1.3	25
28	NH ₄ ⁺ -sensitive chemically modified field effect transistors based on siloxane membranes for flow-cell applications. <i>Analytica Chimica Acta</i> , 1999, 401, 105-110.	2.6	24
29	Development of a three-dimensional microfluidic system for long-term tumor spheroid culture. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 908-913.	4.0	24
30	Adhesion of MRC5 and A549 cells on poly(dimethylsiloxane) surface modified by proteins. <i>Electrophoresis</i> , 2016, 37, 536-544.	1.3	24
31	Evaluation of cytotoxic effect of 5-fluorouracil on human carcinoma cells in microfluidic system. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1544-1551.	4.0	23
32	Evaluation of photodynamic therapy (PDT) procedures using microfluidic system. <i>Analytica Chimica Acta</i> , 2011, 683, 149-155.	2.6	23
33	Biological characterization of the modified poly(dimethylsiloxane) surfaces based on cell attachment and toxicity assays. <i>Biomicrofluidics</i> , 2018, 12, 044105.	1.2	23
34	Novel head for testing and measurement of chemical microsensors. <i>Analytica Chimica Acta</i> , 2001, 429, 347-355.	2.6	22
35	Multi-ion analysis based on versatile sensor head. <i>Sensors and Actuators B: Chemical</i> , 2001, 78, 320-325.	4.0	22
36	Nanoliter detectors for flow systems. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 245-251.	2.0	21

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37	Microfluidic platform for photodynamic therapy cytotoxicity analysis of nanoencapsulated indocyanine-type photosensitizers. <i>Biomicrofluidics</i> , 2016, 10, 014116.	1.2	21
38	Miniaturized back-side contact transducer for potentiometric sensors. <i>Analytica Chimica Acta</i> , 2003, 485, 103-109.	2.6	20
39	Polymer track membranes as a trap support for reagent in fiber optic sensors. , 1996, 59, 719-723.		19
40	Evaluation of nanoencapsulated verteporfin™s cytotoxicity using a microfluidic system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 127, 39-48.	1.4	19
41	Self-regulating heater for microfluidic reactors. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 893-896.	4.0	18
42	Nitrate-selective chemically modified field effect transistors for flow-cell applications. <i>Analytica Chimica Acta</i> , 2000, 416, 97-104.	2.6	16
43	Cellulose based bulk pH optomembranes. <i>Sensors and Actuators B: Chemical</i> , 1998, 48, 471-475.	4.0	15
44	<title>Fiber optic probe for monitoring of drinking water</title>. , 1997, , .		14
45	Degradable nanohydrogel with high doxorubicin loadings exhibiting controlled drug release and decreased toxicity against healthy cells. <i>International Journal of Pharmaceutics</i> , 2020, 579, 119188.	2.6	12
46	Determination of creatinine in clinical samples based on flow-through microsystem. <i>Analytica Chimica Acta</i> , 2005, 540, 181-185.	2.6	11
47	A microfluidic device with fluorimetric detection for intracellular components analysis. <i>Biomedical Microdevices</i> , 2011, 13, 431-440.	1.4	11
48	Comparison of two thermochromic solutions for fibre optic temperature probes. <i>Sensors and Actuators A: Physical</i> , 1999, 76, 203-207.	2.0	10
49	Multi-function microsystem for cells migration analysis and evaluation of photodynamic therapy procedure in coculture. <i>Biomicrofluidics</i> , 2012, 6, 044116.	1.2	10
50	Lab-on-a-Chip Microdevice with Contactless Conductivity Detector. <i>Metrology and Measurement Systems</i> , 2013, 20, 299-306.	1.4	10
51	Selective cancer-killing ability of new efficient porphyrin-based nanophotosensitizer in Lab-on-a-chip system. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 665-674.	4.0	10
52	Durability of phosphate-selective CHEMFETs. <i>Sensors and Actuators B: Chemical</i> , 2001, 78, 315-319.	4.0	9
53	Bonding-less (B-less) fabrication of polymeric microsystems. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 733-737.	1.0	9
54	The influence of selected ð%-mercaptocarboxylate ligands on physicochemical properties and biological activity of Cd-free, zincâ€copperâ€indium sulfide colloidal nanocrystals. <i>Materials Science and Engineering C</i> , 2019, 97, 583-592.	3.8	8

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55	<title>Bonding technique of polymer layer with ceramic elements of analytical microsystems</title> . , 2006, , .		7
56	Effect of a high surface-to-volume ratio on fluorescence-based assays. Analytical and Bioanalytical Chemistry, 2012, 403, 151-155.	1.9	7
57	The microfluidic system for studies of carcinoma and normal cells interactions after photodynamic therapy (PDT) procedures. Biomicrofluidics, 2011, 5, 041101.	1.2	5
58	Effect of downscaling on the linearity range of a calibration curve in spectrofluorimetry. Analytical and Bioanalytical Chemistry, 2014, 406, 4551-4556.	1.9	5
59	Fibre optic coupler as a detector for microfluidic applications. Analyst, The, 2003, 128, 523.	1.7	4
60	Three-dimensional fluidic microsystem fabricated in Low Temperature Cofired Ceramic Technology. Journal of Microelectronics and Electronic Packaging, 2006, 3, 145-151.	0.8	4
61	Palladium determination using flow-through spectrophotometric sensing phase. Sensors and Actuators B: Chemical, 2003, 90, 332-336.	4.0	3
62	An intrinsic fibre optic chemical sensor based on light coupling phenomenon. Sensors and Actuators B: Chemical, 2005, 107, 184-187.	4.0	3
63	Substrate inhibition of lysosomal hydrolases: β -Galactosidase A and β -glucocerebrosidase. Clinical Biochemistry, 2011, 44, 941-943.	0.8	3
64	Advanced 3D Spheroid Culture for Evaluation of Photodynamic Therapy in Microfluidic System. Procedia Engineering, 2016, 168, 403-406.	1.2	3
65	Titanium nanoparticles doping of 5CB infiltrated microstructured optical fibers. Photonics Letters of Poland, 2016, 8, .	0.2	3
66	Low-cost, widespread and reproducible mold fabrication technique for PDMS-based microfluidic photonic systems. Photonics Letters of Poland, 2020, 12, 22.	0.2	3
67	Orientation of Liquid Crystalline Molecules on PDMS Surfaces and within PDMS Microfluidic Systems. Applied Sciences (Switzerland), 2021, 11, 11593.	1.3	3
68	Study of PDMS Microchannels for Liquid Crystalline Optofluidic Devices in Waveguiding Photonic Systems. Crystals, 2022, 12, 729.	1.0	3
69	<title>Hybrid microstructures for capillary electrophoresis with micro-channel in photosensitive layer</title> . , 2007, , .		2
70	AgI-Ag ₂ O-V ₂ O ₅ glasses as ion-to-electron transducers for the construction of all-solid-state microelectrodes. Mikrochimica Acta, 2007, 159, 311-318.	2.5	2
71	A new technology for microfluidic structures preparation based on a photoimageable ceramic. Microsystem Technologies, 2007, 13, 657-661.	1.2	2
72	Microfluidic Systems. , 2018, , 3-21.		2

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73	<title>Multiwavelength analysis of absorbance sensors</title>. , 1999, , .		1
74	Lab-on-a-chip Systems for Cellomicsâ€™Materials and Technology. , 2018, , 23-53.		1
75	Polarization properties of polymer-based photonic crystal fibers. Photonics Letters of Poland, 2014, 6, .	0.2	1
76	A Novel Approach for the Creation of Electrically Controlled LC:PDMS Microstructures. Sensors, 2022, 22, 4037.	2.1	1
77	<title>LabWindows: tool and environment for sensor design</title>. , 1997, , .		0
78	<title>Thermochromic and solvatochromic properties of CoCl_2 solution</title>. , 2001, 4516, 50.		0
79	New ion-sensitive field effect transistors (ISFETs) with backside contacts for flow analysis. , 2003, , .		0
80	Chloride sensor based on a new potentiometric transducer. , 2003, 5124, 69.		0
81	Determination of total metal pollutants in water with optical detection. , 2003, 5124, 215.		0
82	<title>Application of optical fibers in microfluidic structures</title>. , 2004, , .		0
83	Research on the use of hydrogel for the three-dimensional cell culture in microfluidic system. Proceedings of SPIE, 2014, , .	0.8	0
84	Technology of Stearine Transfer Using Laser-Heating for Lab-On-Paper Development. , 2018, , .		0
85	Hollow gold nanoshells modified with PEG: synthesis and application as photothermal agents. , 2019, , .		0
86	Studies on electroporation and electrochemotherapy of adherent cells monolayer using electrode modules of specific geometry. Sensors and Actuators B: Chemical, 2022, 351, 130889.	4.0	0