Artur Dybko

List of Publications by Year in descending order

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86 papers	1,865 citations	236925 25 h-index	289244 40 g-index
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.	9.3	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.	7.3	159
3	Long-term three-dimensional cell culture and anticancer drug activity evaluation in a microfluidic chip. Biosensors and Bioelectronics, 2013, 40, 68-74.	10.1	87
4	All-solid-state miniaturised planar reference electrodes based on ionic liquids. Sensors and Actuators B: Chemical, 2006, 115, 552-557.	7.8	82
5	Spectrophotometric determination of dopamine in microliter scale using microfluidic system based on polymeric technology. Analytica Chimica Acta, 2005, 540, 153-157.	5.4	79
6	Assessment of water quality based on multiparameter fiber optic probe. Sensors and Actuators B: Chemical, 1998, 51, 208-213.	7.8	55
7	Uranyl salophenes as ionophores for phosphate-selective electrodes. Sensors and Actuators B: Chemical, 2000, 68, 313-318.	7.8	54
8	Potentiometric electronic tongue based on integrated array of microelectrodes. Sensors and Actuators B: Chemical, 2007, 127, 8-14.	7.8	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.	5.4	46
10	Graphene as a new material in anticancer therapy-in vitro studies. Sensors and Actuators B: Chemical, 2017, 243, 152-165.	7.8	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.	1.9	41
12	Durable phosphate-selective electrodes based on uranyl salophenes. Analytica Chimica Acta, 2001, 432, 79-88.	5.4	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.	7.8	39
14	Efficient reagent immobilization procedure for ion-sensitive optomembranes. Sensors and Actuators B: Chemical, 1997, 39, 207-211.	7.8	38
15	Studies of anticancer drug cytotoxicity based on longâ€term HepG2 spheroid culture in a microfluidic system. Electrophoresis, 2017, 38, 1206-1216.	2.4	38
16	Microfluidic system with electrochemical and optical detection. Microelectronic Engineering, 2007, 84, 1741-1743.	2.4	35
17	Uric acid determination in a miniaturized flow system with dual optical detection. Sensors and Actuators B: Chemical, 2008, 130, 508-513.	7.8	31
18	Application of optical fibres in oxidation-reduction titrations. Sensors and Actuators B: Chemical, 1995, 29, 374-377.	7.8	30

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19	Towards advanced chemical microsensorsâ€"an overview. Talanta, 2004, 63, 33-39.	5.5	30
20	Studies on effectiveness of PTT on 3D tumor model under microfluidic conditions using aptamer-modified nanoshells. Biosensors and Bioelectronics, 2019, 126, 214-221.	10.1	29
21	The 10th anniversary of MXenes: Challenges and prospects for their surface modification toward future biotechnological applications. Advanced Drug Delivery Reviews, 2022, 182, 114099.	13.7	28
22	Errors in Chemical Sensor Measurements. Sensors, 2001, 1, 29-37.	3.8	27
23	Planar potentiometric sensors based on Au and Ag microelectrodes and conducting polymers for flow-cell analysis. Analytica Chimica Acta, 2005, 540, 167-172.	5.4	26
24	Porous crosslinked PDMS-microchannels coatings. Sensors and Actuators B: Chemical, 2007, 126, 68-72.	7.8	26
25	Architecture and method of fabrication PDMS system for uric acid determination. Sensors and Actuators B: Chemical, 2007, 121, 445-451.	7.8	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. Mikrochimica Acta, 2013, 180, 895-901.	5.0	25
27	Magnetic field-assisted selective delivery of doxorubicin to cancer cells using magnetoliposomes as drug nanocarriers. Nanotechnology, 2019, 30, 315101.	2.6	25
28	NH4+-sensitive chemically modified field effect transistors based on siloxane membranes for flow-cell applications. Analytica Chimica Acta, 1999, 401, 105-110.	5.4	24
29	Development of a three-dimensional microfluidic system for long-term tumor spheroid culture. Sensors and Actuators B: Chemical, 2012, 173, 908-913.	7.8	24
30	Adhesion of MRCâ€5 and A549 cells on poly(dimethylsiloxane) surface modified by proteins. Electrophoresis, 2016, 37, 536-544.	2.4	24
31	Evaluation of cytotoxic effect of 5-fluorouracil on human carcinoma cells in microfluidic system. Sensors and Actuators B: Chemical, 2011, 160, 1544-1551.	7.8	23
32	Evaluation of photodynamic therapy (PDT) procedures using microfluidic system. Analytica Chimica Acta, 2011, 683, 149-155.	5.4	23
33	Biological characterization of the modified poly(dimethylsiloxane) surfaces based on cell attachment and toxicity assays. Biomicrofluidics, 2018, 12, 044105.	2.4	23
34	Novel head for testing and measurement of chemical microsensors. Analytica Chimica Acta, 2001, 429, 347-355.	5.4	22
35	Multi-ion analysis based on versatile sensor head. Sensors and Actuators B: Chemical, 2001, 78, 320-325.	7.8	22
36	Nanoliter detectors for flow systems. Sensors and Actuators A: Physical, 2004, 115, 245-251.	4.1	21

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37	Microfluidic platform for photodynamic therapy cytotoxicity analysis of nanoencapsulated indocyanine-type photosensitizers. Biomicrofluidics, 2016, 10, 014116.	2.4	21
38	Miniaturized back-side contact transducer for potentiometric sensors. Analytica Chimica Acta, 2003, 485, 103-109.	5.4	20
39	Polymer track membranes as a trap support for reagent in fiber optic sensors. , 1996, 59, 719-723.		19
40	Evaluation of nanoencapsulated verteporfinâ€™s cytotoxicity using a microfluidic system. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 39-48.	2.8	19
41	Self-regulating heater for microfluidic reactors. Sensors and Actuators B: Chemical, 2006, 114, 893-896.	7.8	18
42	Nitrate-selective chemically modified field effect transistors for flow-cell applications. Analytica Chimica Acta, 2000, 416, 97-104.	5.4	16
43	Cellulose based bulk pH optomembranes. Sensors and Actuators B: Chemical, 1998, 48, 471-475.	7.8	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. International Journal of Pharmaceutics, 2020, 579, 119188.	5.2	12
46	Determination of creatinine in clinical samples based on flow-through microsystem. Analytica Chimica Acta, 2005, 540, 181-185.	5.4	11
47	A microfluidic device with fluorimetric detection for intracellular components analysis. Biomedical Microdevices, 2011, 13, 431-440.	2.8	11
48	Comparison of two thermochromic solutions for fibre optic temperature probes. Sensors and Actuators A: Physical, 1999, 76, 203-207.	4.1	10
49	Multi-function microsystem for cells migration analysis and evaluation of photodynamic therapy procedure in coculture. Biomicrofluidics, 2012, 6, 044116.	2.4	10
50	Lab-on-a-Chip Microdevice with Contactless Conductivity Detector. Metrology and Measurement Systems, 2013, 20, 299-306.	1.4	10
51	Selective cancer-killing ability of new efficient porphyrin-based nanophotosensitizer in Lab-on-a-chip system. Sensors and Actuators B: Chemical, 2019, 282, 665-674.	7.8	10
52	Durability of phosphate-selective CHEMFETs. Sensors and Actuators B: Chemical, 2001, 78, 315-319.	7.8	9
53	Bonding-less (B-less) fabrication of polymeric microsystems. Microfluidics and Nanofluidics, 2009, 7, 733-737.	2.2	9
54	The influence of selected Ï‰-mercaptocarboxylate ligands on physicochemical properties and biological activity of Cd-free, zincâ€‘copperâ€‘indium sulfide colloidal nanocrystals. Materials Science and Engineering C, 2019, 97, 583-592.	7.3	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.	3.7	7
57	The microfluidic system for studies of carcinoma and normal cells interactions after photodynamic therapy (PDT) procedures. Biomicrofluidics, 2011, 5, 041101.	2.4	5
58	Effect of downscaling on the linearity range of a calibration curve in spectrofluorimetry. Analytical and Bioanalytical Chemistry, 2014, 406, 4551-4556.	3.7	5
59	Fibre optic coupler as a detector for microfluidic applications. Analyst, The, 2003, 128, 523.	3.5	4
60	Three-dimensional fluidic microsystem fabricated in Low Temperature Cofired Ceramic Technology. Journal of Microelectronics and Electronic Packaging, 2006, 3, 145-151.	0.7	4
61	Palladium determination using flow-through spectrophotometric sensing phase. Sensors and Actuators B: Chemical, 2003, 90, 332-336.	7.8	3
62	An intrinsic fibre optic chemical sensor based on light coupling phenomenon. Sensors and Actuators B: Chemical, 2005, 107, 184-187.	7.8	3
63	Substrate inhibition of lysosomal hydrolases: Î±-Galactosidase A and Î²-glucocerebrosidase. Clinical Biochemistry, 2011, 44, 941-943.	1.9	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, .	0.4	3
66	Low-cost, widespread and reproducible mold fabrication technique for PDMS-based microfluidic photonic systems. Photonics Letters of Poland, 2020, 12, 22.	0.4	3
67	Orientation of Liquid Crystalline Molecules on PDMS Surfaces and within PDMS Microfluidic Systems. Applied Sciences (Switzerland), 2021, 11, 11593.	2.5	3
68	Study of PDMS Microchannels for Liquid Crystalline Optofluidic Devices in Waveguiding Photonic Systems. Crystals, 2022, 12, 729.	2.2	3
69	<title>Hybrid microstructures for capillary electrophoresis with micro-channel in photosensitive layer</title>. , 2007, , .		2
70	AgI-Ag2O-V2O5 glasses as ion-to-electron transducers for the construction of all-solid-state microelectrodes. Mikrochimica Acta, 2007, 159, 311-318.	5.0	2
71	A new technology for microfluidic structures preparation based on a photoimageable ceramic. Microsystem Technologies, 2007, 13, 657-661.	2.0	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, .	0.4	1
76	A Novel Approach for the Creation of Electrically Controlled LC:PDMS Microstructures. Sensors, 2022, 22, 4037.	3.8	1
77	<title>LabWindows: tool and environment for sensor design</title>. , 1997, , .		0
78	<title>Thermochromic and solvatochromic properties of CoCl<formula><inf><roman>2</roman></inf></formula> 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.	7.8	0