Artur Dybko

List of Publications by Year in descending order

86 papers	1,865 citations	236612 25 h-index	288905 40 g-index
86 all docs	86 docs citations	86 times ranked	2453 citing authors

#	Article	IF	Citations
1	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
2	The 10th anniversary of MXenes: Challenges and prospects for their surface modification toward future biotechnological applications. Advanced Drug Delivery Reviews, 2022, 182, 114099.	6.6	28
3	Study of PDMS Microchannels for Liquid Crystalline Optofluidic Devices in Waveguiding Photonic Systems. Crystals, 2022, 12, 729.	1.0	3
4	A Novel Approach for the Creation of Electrically Controlled LC:PDMS Microstructures. Sensors, 2022, 22, 4037.	2.1	1
5	Orientation of Liquid Crystalline Molecules on PDMS Surfaces and within PDMS Microfluidic Systems. Applied Sciences (Switzerland), 2021, 11, 11593.	1.3	3
6	Future Applications of MXenes in Biotechnology, Nanomedicine, and Sensors. Trends in Biotechnology, 2020, 38, 264-279.	4.9	161
7	Degradable nanohydrogel with high doxorubicin loadings exhibiting controlled drug release and decreased toxicity against healthy cells. International Journal of Pharmaceutics, 2020, 579, 119188.	2.6	12
8	Low-cost, widespread and reproducible mold fabrication technique for PDMS-based microfluidic photonic systems. Photonics Letters of Poland, 2020, 12, 22.	0.2	3
9	Magnetic field-assisted selective delivery of doxorubicin to cancer cells using magnetoliposomes as drug nanocarriers. Nanotechnology, 2019, 30, 315101.	1.3	25
10	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.	3.8	8
11	Studies on effectiveness of PTT on 3D tumor model under microfluidic conditions using aptamer-modified nanoshells. Biosensors and Bioelectronics, 2019, 126, 214-221.	5.3	29
12	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.	4.0	10
13	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
14	Hollow gold nanoshells modified with PEG: synthesis and application as photothermal agents. , 2019, , .		0
15	Microfluidic Systems. , 2018, , 3-21.		2
16	Lab-on-a-chip Systems for Cellomicsâ€"Materials and Technology. , 2018, , 23-53.		1
17	Biological characterization of the modified poly(dimethylsiloxane) surfaces based on cell attachment and toxicity assays. Biomicrofluidics, 2018, 12, 044105.	1.2	23
18	Technology of Stearine Transfer Using Laser-Heating for Lab-On-Paper Development. , 2018, , .		0

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19	Studies of anticancer drug cytotoxicity based on longâ€term HepG2 spheroid culture in a microfluidic system. Electrophoresis, 2017, 38, 1206-1216.	1.3	38
20	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
21	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
22	Graphene as a new material in anticancer therapy-in vitro studies. Sensors and Actuators B: Chemical, 2017, 243, 152-165.	4.0	44
23	Adhesion of MRCâ€5 and A549 cells on poly(dimethylsiloxane) surface modified by proteins. Electrophoresis, 2016, 37, 536-544.	1.3	24
24	Advanced 3D Spheroid Culture for Evaluation of Photodynamic Therapy in Microfluidic System. Procedia Engineering, 2016, 168, 403-406.	1.2	3
25	Microfluidic platform for photodynamic therapy cytotoxicity analysis of nanoencapsulated indocyanine-type photosensitizers. Biomicrofluidics, 2016, 10, 014116.	1.2	21
26	Evaluation of nanoencapsulated verteporfinâ€™s cytotoxicity using a microfluidic system. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 39-48.	1.4	19
27	Titanium nanoparticles doping of 5CB infiltrated microstructured optical fibers. Photonics Letters of Poland, 2016, 8, .	0.2	3
28	Research on the use of hydrogel for the three-dimensional cell culture in microfluidic system. Proceedings of SPIE, 2014, , .	0.8	0
29	Effect of downscaling on the linearity range of a calibration curve in spectrofluorimetry. Analytical and Bioanalytical Chemistry, 2014, 406, 4551-4556.	1.9	5
30	Polarization properties of polymer-based photonic crystal fibers. Photonics Letters of Poland, 2014, 6, .	0.2	1
31	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.	2.5	25
32	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
33	Lab-on-a-Chip Microdevice with Contactless Conductivity Detector. Metrology and Measurement Systems, 2013, 20, 299-306.	1.4	10
34	Multi-function microsystem for cells migration analysis and evaluation of photodynamic therapy procedure in coculture. Biomicrofluidics, 2012, 6, 044116.	1.2	10
35	Development of a three-dimensional microfluidic system for long-term tumor spheroid culture. Sensors and Actuators B: Chemical, 2012, 173, 908-913.	4.0	24
36	Effect of a high surface-to-volume ratio on fluorescence-based assays. Analytical and Bioanalytical Chemistry, 2012, 403, 151-155.	1.9	7

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37	Evaluation of cytotoxic effect of 5-fluorouracil on human carcinoma cells in microfluidic system. Sensors and Actuators B: Chemical, 2011, 160, 1544-1551.	4.0	23
38	A microfluidic device with fluorimetric detection for intracellular components analysis. Biomedical Microdevices, 2011, 13, 431-440.	1.4	11
39	Evaluation of photodynamic therapy (PDT) procedures using microfluidic system. Analytica Chimica Acta, 2011, 683, 149-155.	2.6	23
40	Substrate inhibition of lysosomal hydrolases: Î±-Galactosidase A and Î²-glucocerebrosidase. Clinical Biochemistry, 2011, 44, 941-943.	0.8	3
41	The microfluidic system for studies of carcinoma and normal cells interactions after photodynamic therapy (PDT) procedures. Biomicrofluidics, 2011, 5, 041101.	1.2	5
42	Bonding-less (B-less) fabrication of polymeric microsystems. Microfluidics and Nanofluidics, 2009, 7, 733-737.	1.0	9
43	Uric acid determination in a miniaturized flow system with dual optical detection. Sensors and Actuators B: Chemical, 2008, 130, 508-513.	4.0	31
44	<title>Hybrid microstructures for capillary electrophoresis with micro-channel in photosensitive layer</title>. , 2007, , .		2
45	Microfluidic system with electrochemical and optical detection. Microelectronic Engineering, 2007, 84, 1741-1743.	1.1	35
46	Architecture and method of fabrication PDMS system for uric acid determination. Sensors and Actuators B: Chemical, 2007, 121, 445-451.	4.0	25
47	Porous crosslinked PDMS-microchannels coatings. Sensors and Actuators B: Chemical, 2007, 126, 68-72.	4.0	26
48	AgI-Ag2O-V2O5 glasses as ion-to-electron transducers for the construction of all-solid-state microelectrodes. Mikrochimica Acta, 2007, 159, 311-318.	2.5	2
49	A new technology for microfluidic structures preparation based on a photoimageable ceramic. Microsystem Technologies, 2007, 13, 657-661.	1.2	2
50	Potentiometric electronic tongue based on integrated array of microelectrodes. Sensors and Actuators B: Chemical, 2007, 127, 8-14.	4.0	50
51	Self-regulating heater for microfluidic reactors. Sensors and Actuators B: Chemical, 2006, 114, 893-896.	4.0	18
52	All-solid-state miniaturised planar reference electrodes based on ionic liquids. Sensors and Actuators B: Chemical, 2006, 115, 552-557.	4.0	82
53	<title>Bonding technique of polymer layer with ceramic elements of analytical microsystems</title>. , 2006, , .		7
54	Three-dimensional fluidic microsystem fabricated in Low Temperature Cofired Ceramic Technology. Journal of Microelectronics and Electronic Packaging, 2006, 3, 145-151.	0.8	4

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55	An intrinsic fibre optic chemical sensor based on light coupling phenomenon. Sensors and Actuators B: Chemical, 2005, 107, 184-187.	4.0	3
56	Planar potentiometric sensors based on Au and Ag microelectrodes and conducting polymers for flow-cell analysis. Analytica Chimica Acta, 2005, 540, 167-172.	2.6	26
57	Spectrophotometric determination of dopamine in microliter scale using microfluidic system based on polymeric technology. Analytica Chimica Acta, 2005, 540, 153-157.	2.6	79
58	Determination of creatinine in clinical samples based on flow-through microsystem. Analytica Chimica Acta, 2005, 540, 181-185.	2.6	11
59	Nanoliter detectors for flow systems. Sensors and Actuators A: Physical, 2004, 115, 245-251.	2.0	21
60	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
61	Towards advanced chemical microsensorsâ€"an overview. Talanta, 2004, 63, 33-39.	2.9	30
62	<title>Application of optical fibers in microfluidic structures</title>. , 2004, , .		0
63	Miniaturized back-side contact transducer for potentiometric sensors. Analytica Chimica Acta, 2003, 485, 103-109.	2.6	20
64	Palladium determination using flow-through spectrophotometric sensing phase. Sensors and Actuators B: Chemical, 2003, 90, 332-336.	4.0	3
65	Fibre optic coupler as a detector for microfluidic applications. Analyst, The, 2003, 128, 523.	1.7	4
66	New ion-sensitive field effect transistors (ISFETs) with backside contacts for flow analysis. , 2003, , .		0
67	Chloride sensor based on a new potentiometric transducer. , 2003, 5124, 69.		0
68	Determination of total metal pollutants in water with optical detection. , 2003, 5124, 215.		0
69	Errors in Chemical Sensor Measurements. Sensors, 2001, 1, 29-37.	2.1	27
70	<title>Thermochromic and solvatochromic properties of CoCl<formula><inf><roman>2</roman></inf></formula> solution</title>. , 2001, 4516, 50.		0
71	Novel head for testing and measurement of chemical microsensors. Analytica Chimica Acta, 2001, 429, 347-355.	2.6	22
72	Durability of phosphate-selective CHEMFETs. Sensors and Actuators B: Chemical, 2001, 78, 315-319.	4.0	9

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73	Multi-ion analysis based on versatile sensor head. Sensors and Actuators B: Chemical, 2001, 78, 320-325.	4.0	22
74	Durable phosphate-selective electrodes based on uranyl salophenes. Analytica Chimica Acta, 2001, 432, 79-88.	2.6	39
75	Nitrate-selective chemically modified field effect transistors for flow-cell applications. Analytica Chimica Acta, 2000, 416, 97-104.	2.6	16
76	Uranyl salophenes as ionophores for phosphate-selective electrodes. Sensors and Actuators B: Chemical, 2000, 68, 313-318.	4.0	54
77	Comparison of two thermochromic solutions for fibre optic temperature probes. Sensors and Actuators A: Physical, 1999, 76, 203-207.	2.0	10
78	NH4+-sensitive chemically modified field effect transistors based on siloxane membranes for flow-cell applications. Analytica Chimica Acta, 1999, 401, 105-110.	2.6	24
79	<title>Multiwavelength analysis of absorbance sensors</title>. , 1999, , .		1
80	Cellulose based bulk pH optomembranes. Sensors and Actuators B: Chemical, 1998, 48, 471-475.	4.0	15
81	Assessment of water quality based on multiparameter fiber optic probe. Sensors and Actuators B: Chemical, 1998, 51, 208-213.	4.0	55
82	<title>LabWindows: tool and environment for sensor design</title>. , 1997, , .		0
83	<title>Fiber optic probe for monitoring of drinking water</title>. , 1997, , .		14
84	Efficient reagent immobilization procedure for ion-sensitive optomembranes. Sensors and Actuators B: Chemical, 1997, 39, 207-211.	4.0	38
85	Polymer track membranes as a trap support for reagent in fiber optic sensors. , 1996, 59, 719-723.		19
86	Application of optical fibres in oxidation-reduction titrations. Sensors and Actuators B: Chemical, 1995, 29, 374-377.	4.0	30