# Elzbieta Jastrzebska

List of Publications by Year
in descending order



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|---|---|---|---|
| 41 papers | 824 citations | 393982 19 h-index | 500791 28 g-index |
| 42 all docs | 42 docs citations | 42 times ranked | 1345 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Heart-on-a-chip based on stem cell biology. Biosensors and Bioelectronics, 2016, 75, 67-81. | 5.3 | 74 |
| 2 | PDMS/glass microfluidic cell culture system for cytotoxicity tests and cells passage. Sensors and Actuators B: Chemical, 2010, 145, 533-542. | 4.0 | 69 |
| 3 | Recent progress in the engineering of multifunctional colloidal nanoparticles for enhanced photodynamic therapy and bioimaging. Advances in Colloid and Interface Science, 2018, 261, 62-81. | 7.0 | 59 |
| 4 | Poly( l -lactic acid) and polyurethane nanofibers fabricated by solution blow spinning as potential substrates for cardiac cell culture. Materials Science and Engineering C, 2017, 75, 305-316. | 3.8 | 57 |
| 5 | 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 |
| 6 | 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 |
| 7 | <p>The effects of graphene and mesenchymal stem cells in cutaneous wound healing and their putative action mechanism</p>. International Journal of Nanomedicine, 2019, Volume 14, 2281-2299. | 3.3 | 39 |
| 8 | Lab-on-a-chip systems for photodynamic therapy investigations. Biosensors and Bioelectronics, 2018, 101, 37-51. | 5.3 | 35 |
| 9 | Microsystem with micropillar array for three- (gel-embaded) and two-dimensional cardiac cell culture. Sensors and Actuators B: Chemical, 2018, 254, 973-983. | 4.0 | 30 |
| 10 | Miniaturized tools and devices for bioanalytical applications: an overview. Analytical and Bioanalytical Chemistry, 2009, 395, 647-668. | 1.9 | 25 |
| 11 | 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 |
| 12 | Adhesion of MRCâ€5 and A549 cells on poly(dimethylsiloxane) surface modified by proteins. Electrophoresis, 2016, 37, 536-544. | 1.3 | 24 |
| 13 | 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 |
| 14 | Evaluation of photodynamic therapy (PDT) procedures using microfluidic system. Analytica Chimica Acta, 2011, 683, 149-155. | 2.6 | 23 |
| 15 | Biological characterization of the modified poly(dimethylsiloxane) surfaces based on cell attachment and toxicity assays. Biomicrofluidics, 2018, 12, 044105. | 1.2 | 23 |
| 16 | Microfluidic platform for photodynamic therapy cytotoxicity analysis of nanoencapsulated indocyanine-type photosensitizers. Biomicrofluidics, 2016, 10, 014116. | 1.2 | 21 |
| 17 | Lab-on-a-chip system integrated with nanofiber mats used as a potential tool to study cardiovascular diseases (CVDs). Sensors and Actuators B: Chemical, 2021, 330, 129291. | 4.0 | 20 |
| 18 | Evaluation of nanoencapsulated verteporfinâ€™s cytotoxicity using a microfluidic system. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 39-48. | 1.4 | 19 |

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|---|---|---|---|
| 19 | Different action of nanoencapsulated meso-tetraphenylporphyrin in breast spheroid co-culture and mono-culture under microfluidic conditions. Sensors and Actuators B: Chemical, 2018, 275, 69-77. | 4.0 | 19 |
| 20 | Flow-through sensor array applied to cytotoxicity assessment in cell cultures for drug-testing purposes. Biosensors and Bioelectronics, 2014, 51, 55-61. | 5.3 | 18 |
| 21 | Synergistic effect of the combination therapy on ovarian cancer cells under microfluidic conditions. Analytica Chimica Acta, 2020, 1100, 138-148. | 2.6 | 16 |
| 22 | Analysis of the efficiency of photodynamic therapy using a microsystem for mono-, co- and mixed cultures. Sensors and Actuators B: Chemical, 2015, 221, 1356-1365. | 4.0 | 14 |
| 23 | Islet-on-a-chip: Biomimetic micropillar-based microfluidic system for three-dimensional pancreatic islet cell culture. Biosensors and Bioelectronics, 2021, 183, 113215. | 5.3 | 14 |
| 24 | A microfluidic device with fluorimetric detection for intracellular components analysis. Biomedical Microdevices, 2011, 13, 431-440. | 1.4 | 11 |
| 25 | Combinations of regenerative medicine and Lab-on-a-chip systems: New hope to restoring the proper function of pancreatic islets in diabetes. Biosensors and Bioelectronics, 2020, 167, 112451. | 5.3 | 11 |
| 26 | A multilayered cancer-on-a-chip model to analyze the effectiveness of new-generation photosensitizers. Analyst, The, 2020, 145, 6937-6947. | 1.7 | 11 |
| 27 | Multi-function microsystem for cells migration analysis and evaluation of photodynamic therapy procedure in coculture. Biomicrofluidics, 2012, 6, 044116. | 1.2 | 10 |
| 28 | 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 |
| 29 | Human mesenchymal stem cell (hMSC) differentiation towards cardiac cells using a new microbioanalytical method. Analyst, The, 2020, 145, 3017-3028. | 1.7 | 8 |
| 30 | Study of Stem Cells Influence on Cardiac Cells Cultured with a Cyanide-P-Trifluoromethoxyphenylhydrazone in Organ-on-a-Chip System. Biosensors, 2021, 11, 131. | 2.3 | 6 |
| 31 | Well-defined Graphene Oxide as a Potential Component in Lung Cancer Therapy. Current Cancer Drug Targets, 2020, 20, 47-58. | 0.8 | 5 |
| 32 | Advanced 3D Spheroid Culture for Evaluation of Photodynamic Therapy in Microfluidic System. Procedia Engineering, 2016, 168, 403-406. | 1.2 | 3 |
| 33 | Cytotoxic properties of graphene derivatives depending on origin and type of cell line. Journal of Materials Research, 2020, 35, 2385-2395. | 1.2 | 3 |
| 34 | Simulation of hypoxia of myocardial cells in microfluidic systems. Scientific Reports, 2020, 10, 15524. | 1.6 | 3 |
| 35 | Investigation of the Therapeutic Potential of New Antidiabetic Compounds Using Islet-on-a-Chip Microfluidic Model. Biosensors, 2022, 12, 302. | 2.3 | 3 |
| 36 | â€œLab-on-a-Chipâ€•Dedicated for Cell Engineering. Springer Series in Chemical Physics, 2013, , 253-269. | 0.2 | 2 |

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|---|---|---|---|
| 37 | Microfluidic Systems. , 2018, , 3-21. | | 2 |
| 38 | Heart-on-a-chip Systems. , 2018, , 169-199. | | 1 |
| 39 | Microfluidic Systems for Cardiac Cell Cultureâ€"Characterization. , 2018, , 155-167. | | 1 |
| 40 | Research on the use of hydrogel for the three-dimensional cell culture in microfluidic system. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 41 | Cardiac Cell Culture Microtechnologies Based on Stem Cells. , 2018, , 201-231. | | 0 |