# Frank Sonntag

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5195998/publications.pdf

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|---|---|---|---|
| 39 papers | 2,407 citations | 430874 18 h-index | 345221 36 g-index |
| 40 all docs | 40 docs citations | 40 times ranked | 3223 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A four-organ-chip for interconnected long-term co-culture of human intestine, liver, skin and kidney equivalents. Lab on A Chip, 2015, 15, 2688-2699. | 6.0 | 662 |
| 2 | A dynamic multi-organ-chip for long-term cultivation and substance testing proven by 3D human liver and skin tissue co-culture. Lab on A Chip, 2013, 13, 3538. | 6.0 | 396 |
| 3 | Direct comparison of the performance of Bloch surface wave and surface plasmon polariton sensors. Sensors and Actuators B: Chemical, 2012, 174, 292-298. | 7.8 | 218 |
| 4 | Chip-based human liverâ€“intestine and liverâ€“skin co-cultures â€“ A first step toward systemic repeated dose substance testing in vitro. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 77-87. | 4.3 | 171 |
| 5 | Integrating biological vasculature into a multi-organ-chip microsystem. Lab on A Chip, 2013, 13, 3588. | 6.0 | 155 |
| 6 | â€˜Human-on-a-chipâ€™ Developments: A Translational Cutting-edge Alternative to Systemic Safety Assessment and Efficiency Evaluation of Substances in Laboratory Animals and Man?. ATLA Alternatives To Laboratory Animals, 2012, 40, 235-257. | 1.0 | 153 |
| 7 | Fabrication of porous scaffolds by three-dimensional plotting of a pasty calcium phosphate bone cement under mild conditions. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 682-693. | 2.7 | 108 |
| 8 | Well-ordered biphasic calcium phosphateâ€“alginate scaffolds fabricated by multi-channel 3D plotting under mild conditions. Journal of Materials Chemistry B, 2013, 1, 4088. | 5.8 | 88 |
| 9 | Design and prototyping of a chip-based multi-micro-organoid culture system for substance testing, predictive to human (substance) exposure. Journal of Biotechnology, 2010, 148, 70-75. | 3.8 | 62 |
| 10 | Enhanced structural maturation of human induced pluripotent stem cell-derived cardiomyocytes under a controlled microenvironment in a microfluidic system. Acta Biomaterialia, 2020, 102, 273-286. | 8.3 | 48 |
| 11 | Surface plasmon resonance platform technology for multiâ€parameter analyses on polymer chips. Engineering in Life Sciences, 2011, 11, 566-572. | 3.6 | 41 |
| 12 | Detection of soluble ERBB2 in breast cancer cell lysates using a combined label-free/fluorescence platform based on Bloch surface waves. Biosensors and Bioelectronics, 2017, 92, 125-130. | 10.1 | 41 |
| 13 | Label-Free Detection of Tumor Angiogenesis Biomarker Angiopoietin 2 Using Bloch Surface Waves on One Dimensional Photonic Crystals. Journal of Lightwave Technology, 2015, 33, 3385-3393. | 4.6 | 26 |
| 14 | DNA microarrays for hybridization detection by surface plasmon resonance spectroscopy. Biosensors and Bioelectronics, 2010, 26, 1543-1547. | 10.1 | 25 |
| 15 | Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. Sensors and Actuators B: Chemical, 2018, 255, 2143-2150. | 7.8 | 25 |
| 16 | A compact and rapid aptasensor platform based on surface plasmon resonance. Engineering in Life Sciences, 2011, 11, 573-579. | 3.6 | 20 |
| 17 | â€˜Phytochipâ€™: On-chip detection of phytopathogenic RNA viruses by a new surface plasmon resonance platform. Journal of Virological Methods, 2013, 189, 80-86. | 2.1 | 19 |
| 18 | Bloch surface wave enhanced biosensor for the direct detection of Angiopoietin-2 tumor biomarker in human plasma. Biomedical Optics Express, 2018, 9, 529. | 2.9 | 19 |

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|---|---|---|---|
| 19 | Detection of miRNA using a surface plasmon resonance biosensor and antibody amplification. Current Directions in Biomedical Engineering, 2016, 2, 135-138. | 0.4 | 12 |
| 20 | A novel technique based on Bloch surface waves sustained by one-dimensional photonic crystals to probe mass transport in a microfluidic channel. Sensors and Actuators B: Chemical, 2017, 247, 532-539. | 7.8 | 11 |
| 21 | Surface Modification of Polymers by using Excimer Laser for Biomedical Applications. Plasma Processes and Polymers, 2007, 4, S416-S418. | 3.0 | 10 |
| 22 | Bloch Surface Waves Biosensors for High Sensitivity Detection of Soluble ERBB2 in a Complex Biological Environment. Biosensors, 2017, 7, 33. | 4.7 | 10 |
| 23 | Hypoxia-on-a-chip. Current Directions in Biomedical Engineering, 2016, 2, 71-75. | 0.4 | 9 |
| 24 | Ultrasensitive SPR detection of miRNAâ€93 using antibodyâ€enhanced and enzymatic signal amplification. Engineering in Life Sciences, 2017, 17, 1264-1270. | 3.6 | 8 |
| 25 | Design, characterization, and modeling of microcirculation systems with integrated oxygenators. Journal of Sensors and Sensor Systems, 2016, 5, 221-228. | 0.9 | 8 |
| 26 | Multilayer-based lab-on-a-chip systems for perfused cell-based assays. Advanced Optical Technologies, 2014, 3, 515-521. | 1.7 | 7 |
| 27 | Universal Micromachining Platform and Basic Technologies for the Manufacture and Marking of Microphysiological Systems. Micromachines, 2017, 8, 246. | 2.9 | 7 |
| 28 | Detection and identification of Staphylococcus aureus using magnetic particle enhanced surface plasmon spectroscopy. Engineering in Life Sciences, 2018, 18, 263-268. | 3.6 | 7 |
| 29 | Multiple method micromachining laser platform for fabricating anti-counterfeit elements with multiple-scaled features. Optics and Laser Technology, 2019, 115, 465-476. | 4.6 | 7 |
| 30 | Biosensing platform combining label-free and labelled analysis using Bloch surface waves. , 2015, , . | | 6 |
| 31 | Label-Free Monitoring of Human IgG/Anti-IgG Recognition Using Bloch Surface Waves on 1D Photonic Crystals. Biosensors, 2018, 8, 71. | 4.7 | 6 |
| 32 | Purification and immunodetection of the complete recombinant HER-2[neu] receptor produced in yeast. Protein Expression and Purification, 2015, 105, 61-70. | 1.3 | 5 |
| 33 | 3D printing â€“ a key technology for tailored biomedical cell culture lab ware. Current Directions in Biomedical Engineering, 2016, 2, 105-108. | 0.4 | 4 |
| 34 | A microphysiological system to investigate the pressure dependent filtration at an artificial glomerular kidney barrier. Current Directions in Biomedical Engineering, 2019, 5, 389-391. | 0.4 | 4 |
| 35 | Multilayer based lab-on-a-chip-systems for substance testing. , 2015, , . | | 3 |
| 36 | Closed-loop control system for well-defined oxygen supply in micro-physiological systems. Current Directions in Biomedical Engineering, 2017, 3, 363-366. | 0.4 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Universal LIMS based platform for the automated processing of cell-based assays. Current Directions in Biomedical Engineering, 2019, 5, 437-439. | 0.4 | 1 |
| 38 | Microphysiological system for heart tissue - going from 2D to 3D culture. Current Directions in Biomedical Engineering, 2019, 5, 269-272. | 0.4 | 0 |
| 39 | New joining and automation approaches for multilayer-based manufacturing of complex, customized microsystems. , 2022, , . | | 0 |