Felix F Loeffler

List of Publications by Year
in descending order

58	737	623188 14	676716 22
papers	citations	h-index	g-index

64	64	64	965
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-flexibility combinatorial peptide synthesis with laser-based transfer of monomers in solid matrix material. Nature Communications, 2016, 7, 11844.	5.8	49
2	Single amino acid fingerprinting of the human antibody repertoire with high density peptide arrays. Journal of Immunological Methods, 2017, 443, 45-54.	0.6	45
3	Mapping Putative B-Cell Zika Virus NS1 Epitopes Provides Molecular Basis for Anti-NS1 Antibody Discrimination between Zika and Dengue Viruses. ACS Omega, 2017, 2, 3913-3920.	1.6	41
4	Combinatorial Synthesis of Macromolecular Arrays by Microchannel Cantilever Spotting (ÂµCS). Advanced Materials, 2018, 30, e1801632.	11.1	31
5	High-density Peptide Arrays Help to Identify Linear Immunogenic B-cell Epitopes in Individuals Naturally Exposed to Malaria Infection. Molecular and Cellular Proteomics, 2019, 18, 642-656.	2.5	29
6	Multivalent glycan arrays. Faraday Discussions, 2019, 219, 9-32.	1.6	26
7	Elastic reversible valves on centrifugal microfluidic platforms. Lab on A Chip, 2019, 19, 1090-1100.	3.1	25
8	Rapid Response to Pandemic Threats: Immunogenic Epitope Detection of Pandemic Pathogens for Diagnostics and Vaccine Development Using Peptide Microarrays. Journal of Proteome Research, 2020, 19, 4339-4354.	1.8	23
9	Longitudinal Development of Antibody Responses in COVID-19 Patients of Different Severity with ELISA, Peptide, and Glycan Arrays: An Immunological Case Series. Pathogens, 2021, 10, 438.	1.2	21
10	Antibody fingerprints in lyme disease deciphered with high density peptide arrays. Engineering in Life Sciences, 2017, 17, 1078-1087.	2.0	20
11	Highâ€Density Peptide Arrays with Combinatorial Laser Fusing. Advanced Materials, 2014, 26, 3730-3734.	11.1	19
12	Development of Neutralizing and Non-neutralizing Antibodies Targeting Known and Novel Epitopes of TcdB of Clostridioides difficile. Frontiers in Microbiology, 2018, 9, 2908.	1.5	18
13	Onâ€Chip Neoâ€Glycopeptide Synthesis for Multivalent Glycan Presentation. Chemistry - A European Journal, 2020, 26, 9954-9963.	1.7	18
14	Sensing Immune Responses with Customized Peptide Microarrays. Biointerphases, 2012, 7, 47.	0.6	16
15	Programmable high voltage CMOS chips for particle-based high-density combinatorial peptide synthesis. Sensors and Actuators B: Chemical, 2010, 147, 418-427.	4.0	15
16	High-Precision Combinatorial Deposition of Micro Particle Patterns on a Microelectronic Chip. Aerosol Science and Technology, 2011, 45, 65-74.	1.5	15
17	Laser-driven growth of structurally defined transition metal oxide nanocrystals on carbon nitride photoelectrodes in milliseconds. Nature Communications, 2021, 12, 3224.	5.8	15
18	Biomolecule Arrays Using Functional Combinatorial Particle Patterning on Microchips. Advanced Functional Materials, 2012, 22, 2503-2508.	7.8	14

#	Article	IF	Citations
19	Combinatorial Synthesis of Peptoid Arrays via Laserâ€Based Stacking of Multiple Polymer Nanolayers. Macromolecular Rapid Communications, 2019, 40, 1800533.	2.0	14
20	A Lowâ€Cost Laserâ€Based Nanoâ€3D Polymer Printer for Rapid Surface Patterning and Chemical Synthesis of Peptide and Glycan Microarrays. Advanced Materials Technologies, 2019, 4, 1900503.	3.0	13
21	Laser-induced forward transfer of soft material nanolayers with millisecond pulses shows contact-based material deposition. Applied Surface Science, 2020, 508, 144973.	3.1	13
22	Purification of Highâ€Complexity Peptide Microarrays by Spatially Resolved Array Transfer to Goldâ€Coated Membranes. Advanced Materials, 2013, 25, 1598-1602.	11.1	12
23	Measurement of triboelectric charging of moving micro particles by means of an inductive cylindrical probe. Journal Physics D: Applied Physics, 2007, 40, 6115-6120.	1.3	11
24	Particle-Based Microarrays of Oligonucleotides and Oligopeptides. Microarrays (Basel, Switzerland), 2014, 3, 245-262.	1.4	11
25	Combinatorial Particle Patterning. Advanced Functional Materials, 2017, 27, 1703511.	7.8	11
26	Identification of a Tetanus Toxin Specific Epitope in Single Amino Acid Resolution. Biotechnology Journal, 2017, 12, 1700197.	1.8	11
27	Nanolayer Laser Absorber for Femtoliter Chemistry in Polymer Reactors. Advanced Materials, 2022, 34, e2108493.	11.1	11
28	Automated Laserâ€Transfer Synthesis of Highâ€Density Microarrays for Infectious Disease Screening. Advanced Materials, 2022, 34, e2200359.	11.1	11
29	Sustainable Cathodes for Lithiumâ€Ion Energy Storage Devices Based on Tannic Acidâ€”Toward Ecofriendly Energy Storage. Advanced Sustainable Systems, 2021, 5, 2000206.	2.7	10
30	High-Density Peptide Arrays for Malaria Vaccine Development. Methods in Molecular Biology, 2016, 1403, 569-582.	0.4	9
31	Epitopes of Naturally Acquired and Vaccineâ€Induced Antiâ€Ebola Virus Glycoprotein Antibodies in Single Amino Acid Resolution. Biotechnology Journal, 2020, 15, 2000069.	1.8	9
32	Using Carbon Laser Patterning to Produce Flexible, Metal-Free Humidity Sensors. ACS Applied Electronic Materials, 2020, 2, 4146-4154.	2.0	9
33	Noncontact charge measurement of moving microparticles contacting dielectric surfaces. Review of Scientific Instruments, 2007, 78, 075111.	0.6	8
34	Alkanes as Intelligent Surface Thermometers: A Facile Approach to Characterize Shortâ€Lived Temperature Gradients on the Micrometer Scale. Advanced Materials Interfaces, 2021, 8, 2001626.	1.9	8
35	Peptide Arrays with a Chip. Methods in Molecular Biology, 2010, 669, 109-124.	0.4	8
36	Alternative Setups for Automated Peptide Synthesis. Mini-Reviews in Organic Chemistry, 2011, 8, 121-131.	0.6	7

#	Article	IF	Citations
37	Printing Peptide Arrays with a Complementary Metal Oxide Semiconductor Chip. Advances in Biochemical Engineering/Biotechnology, 2013, 137, 1-23.	0.6	7
38	Characterization of triboelectrically charged particles deposited on dielectric surfaces. Journal Physics D: Applied Physics, 2010, 43, 165301.	1.3	6
39	Selective Functionalization of Microstructured Surfaces by Laserâ€Assisted Particle Transfer. Advanced Functional Materials, 2016, 26, 7067-7073.	7.8	6
40	Ultrasonicâ€Assisted Synthesis of Highly Defined Silver Nanodimers by Selfâ€Assembly for Improved Surfaceâ€Enhanced Raman Spectroscopy. Chemistry - A European Journal, 2020, 26, 1243-1248.	1.7	6
41	Probing Multivalent Carbohydrate-Protein Interactions With On-Chip Synthesized Glycopeptides Using Different Functionalized Surfaces. Frontiers in Chemistry, 2021, 9, 766932.	1.8	6
42	Position Matters: Fluorescent Positional Isomers for Reliable Multichannel Encryption Devices. Chemistry - A European Journal, 2021, 27, 16098-16102.	1.7	6
43	Solid-material-based coupling efficiency analyzed with time-of-flight secondary ion mass spectrometry. Applied Surface Science, 2016, 360, 306-314.	3.1	5
44	A Trifunctional Linker for Purified 3D Assembled Peptide Structure Arrays. Small Methods, 2018, 2, 1700205.	4.6	5
45	Trained laser-patterned carbon as high-performance mechanical sensors. Npj Flexible Electronics, 2022, 6, .	5.1	5
46	Quality analysis of selective microparticle deposition on electrically programmable surfaces. Review of Scientific Instruments, 2010, 81, 073703.	0.6	4
47	Microparticle transfer onto pixel electrodes of 45 Î¼m pitch on HV-CMOS chipsâ€"Simulation and experiment. Sensors and Actuators A: Physical, 2011, 172, 533-545.	2.0	4
48	Replication of Polymerâ€Based Peptide Microarrays by Multiâ€Step Transfer. ChemNanoMat, 2016, 2, 897-903.	1.5	3
49	Automated laser-assisted synthesis of microarrays for infectious disease research. , 2019, , .		3
50	Automated glycan assembly of peptidoglycan backbone fragments. Organic and Biomolecular Chemistry, 2021, 19, 9829-9832.	1.5	3
51	Assessing Polymer-Surface Adhesion with a Polymer Collection. Langmuir, 2022, , .	1.6	3
52	Development of a poly(dimethylacrylamide) based matrix material for solid phase high density peptide array synthesis employing a laser based material transfer. Applied Surface Science, 2016, 389, 942-951.	3.1	2
53	Identification of a Zika NS2B epitope as a biomarker for severe clinical phenotypes. RSC Medicinal Chemistry, 2021, 12, 1525-1539.	1.7	2
54	Development and Experimental Assessment of a Model for the Material Deposition by Laser-Induced Forward Transfer. Applied Sciences (Switzerland), 2022, 12, 1361.	1.3	2

#	Article	IF	Citations
55	Spatial Modes of Laser-Induced Mass Transfer in Micro-Gaps. Applied Sciences (Switzerland), 2019, 9, 1303.	1.3	1
56	Microarray Synthesizer: A Lowâ€Cost Laserâ€Based Nanoâ€3D Polymer Printer for Rapid Surface Patterning and Chemical Synthesis of Peptide and Glycan Microarrays (Adv. Mater. Technol. 11/2019). Advanced Materials Technologies, 2019, 4, 1970062.	3.0	1
57	Biofunctional Xerography. , 0, , .		0
58	Image Processing Quality Analysis for Particle Based Peptide Array Production on a Microchip. , 0, , .		0