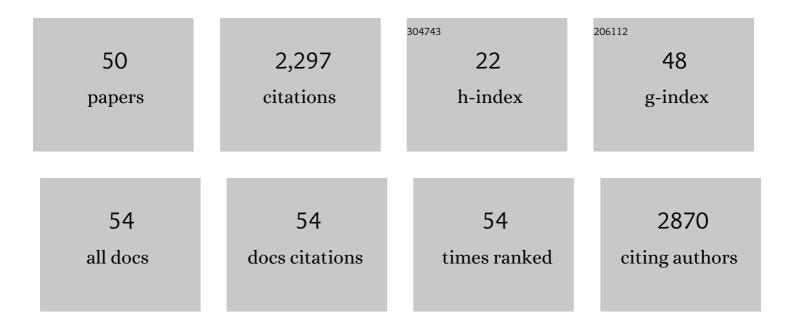
Dieter Trau

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A biologically inspired hierarchical PCL/F127 scaffold for esophagus tissue repair. Materials Letters, 2019, 243, 132-135.	2.6	5
2	Hand-Held Photometer for Instant On-Spot Quantification of Nucleic Acids, Proteins, and Cells. Analytical Chemistry, 2018, 90, 2564-2569.	6.5	9
3	Homogeneous cell printing on porous PCL/F127 tissue engineering scaffolds. Bioprinting, 2018, 12, e00030.	5.8	7
4	Capsule-like Safe Genetic Vectors—Cell-Penetrating Core–Shell Particles Selectively Release Functional Small RNA and Entrap Its Encoding DNA. ACS Applied Materials & Interfaces, 2018, 10, 21113-21124.	8.0	2
5	Learning-Based Cell Injection Control for Precise Drop-on-Demand Cell Printing. Annals of Biomedical Engineering, 2018, 46, 1267-1279.	2.5	19
6	PEG-based autonomous capillary system with integrated microbead array for immunoassay. Materials Science and Engineering C, 2017, 70, 1031-1038.	7.3	8
7	Engineering and Design of Polymeric Shells: Inwards Interweaving Polymers as Multilayer Nanofilm, Immobilization Matrix, or Chromatography Resins. ACS Applied Materials & Interfaces, 2017, 9, 5447-5456.	8.0	13
8	Gel pad array chip for high throughput and multi-analyte microbead-based immunoassays. Biosensors and Bioelectronics, 2015, 66, 370-378.	10.1	17
9	Mitochondrial Routing of Glucose and Sucrose Polymers after Pinocytotic Uptake: Avenues for Drug Delivery. Biomacromolecules, 2014, 15, 2119-2127.	5.4	3
10	Design, preparation and assessment of surface-immobilised tetraphenylethenes for biosensing applications. Applied Surface Science, 2014, 307, 475-481.	6.1	3
11	A fast point pattern matching algorithm for robust spatially addressable bead encoding. , 2013, , .		1
12	Inwards Interweaving of Polymeric Layers within Hydrogels: Assembly of Spherical Multiâ€ 5 hells with Discrete Porosity Differences. Advanced Functional Materials, 2013, 23, 5108-5115.	14.9	16
13	Utilizing microfluidics to synthesize polyethylene glycol microbeads for Förster resonance energy transfer based glucose sensing. Biomicrofluidics, 2012, 6, 22006-220069.	2.4	20
14	Multiplex detection platform for tumor markers and glucose in serum based on a microfluidic microparticle array. Analytica Chimica Acta, 2012, 751, 146-154.	5.4	30
15	Assembly of biomacromolecule loaded polyelectrolyte multilayer capsules by using water soluble sacrificial templates. Soft Matter, 2012, 8, 2760.	2.7	23
16	A â€~microfluidic pinball' for on-chip generation of Layer-by-Layer polyelectrolyte microcapsules. Lab on A Chip, 2011, 11, 1030.	6.0	106
17	Self-Assembly of Polyamines as a Facile Approach to Fabricate Permeability Tunable Polymeric Shells for Biomolecular Encapsulation. ACS Applied Materials & Interfaces, 2011, 3, 1665-1674.	8.0	18
18	A portable generic DNA bioassay system based on in situ oligonucleotide synthesis and hybridization detection. Biosensors and Bioelectronics, 2011, 26, 2436-2441.	10.1	5

Dieter Trau

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19	Inwards Buildup of Concentric Polymer Layers: A Method for Biomolecule Encapsulation and Microcapsule Encoding. Angewandte Chemie - International Edition, 2010, 49, 5189-5193.	13.8	22
20	Surfaceâ€Bound Microenclosures for Biomolecules. Angewandte Chemie - International Edition, 2010, 49, 9773-9776.	13.8	5
21	Matrix-Assisted Colloidosome Reverse-Phase Layer-by-Layer Encapsulating Biomolecules in Hydrogel Microcapsules with Extremely High Efficiency and Retention Stability. Langmuir, 2009, 25, 769-775.	3.5	47
22	In-situ measurement of cellular microenvironments in a microfluidic device. Lab on A Chip, 2009, 9, 257-262.	6.0	28
23	Fabrication of inflated LbL microcapsules with a â€~bead-in-a-capsule' morphology. Soft Matter, 2009, 5, 4152.	2.7	19
24	Diffusion Controlled and Temperature Stable Microcapsule Reaction Compartments for Highâ€Throughput Microcapsuleâ€PCR. Advanced Functional Materials, 2008, 18, 2930-2937.	14.9	57
25	Integrated Direct DNA/Protein Patterning and Microfabrication by Focused Ion Beam Milling. Advanced Materials, 2008, 20, 1636-1643.	21.0	16
26	Reusable optical bioassay platform with permeability-controlled hydrogel pads for selective saccharide detection. Analytica Chimica Acta, 2008, 607, 204-210.	5.4	18
27	Influence of Different Polyelectrolytes on Layer-by-Layer Microcapsule Properties: Encapsulation Efficiency and Colloidal and Temperature Stability. Chemistry of Materials, 2008, 20, 5475-5484.	6.7	51
28	PDMS microdevice with built-in optical biosensor array for on-site monitoring of the microenvironment within microchannels. , 2007, , .		2
29	Reverse-Phase LbLEncapsulation of Highly Water Soluble Materials by Layer-by-Layer Polyelectrolyte Self-Assembly. Langmuir, 2007, 23, 8827-8832.	3.5	40
30	Real time observation of diffusion and bioaffinity binding processes in single polyelectrolyte-coated microcapsules: A fluorescence-based approach. Colloids and Surfaces B: Biointerfaces, 2007, 60, 125-130.	5.0	3
31	Preservation of the Biofunctionality of DNA and Protein during Microfabrication. Langmuir, 2006, 22, 877-881.	3.5	15
32	Micromolding of PDMS scaffolds and microwells for tissue culture and cell patterning: A new method of microfabrication by the self-assembled micropatterns of diblock copolymer micelles. Polymer, 2006, 47, 5124-5130.	3.8	64
33	Electrochemical Bioassay Utilizing Encapsulated Electrochemical Active Microcrystal Biolabels. Analytical Chemistry, 2005, 77, 2835-2841.	6.5	50
34	Silole nanocrystals as novel biolabels. Journal of Immunological Methods, 2004, 295, 111-118.	1.4	63
35	Nanocrystal Biolabels with Releasable Fluorophores for Immunoassays. Analytical Chemistry, 2004, 76, 3638-3645.	6.5	77
36	Nanoengineered Encapsulation of Mediator Microcrystals and Their Use as a Non-metallic Label System for the Silver Enhancement Technique. Electroanalysis, 2004, 16, 156-160.	2.9	5

Dieter Trau

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37	Encapsulation of glucose oxidase microparticles within a nanoscale layer-by-layer film: immobilization and biosensor applications. Biosensors and Bioelectronics, 2003, 18, 1491-1499.	10.1	107
38	5â€~-Thiolated Oligonucleotides on (3-Mercaptopropyl)trimethoxysilaneâ^'Mica: Surface Topography and Coverage. Langmuir, 2003, 19, 5846-5850.	3.5	15
39	Surface-chemistry technology for microfluidics. Journal of Micromechanics and Microengineering, 2003, 13, 272-278.	2.6	84
40	Nanoencapsulated Microcrystalline Particles for Superamplified Biochemical Assays. Analytical Chemistry, 2002, 74, 5480-5486.	6.5	109
41	Miniaturized Flow Fractionation Device Assisted by a Pulsed Electric Field for Nanoparticle Separation. Analytical Chemistry, 2002, 74, 5364-5369.	6.5	48
42	Genotyping on a Complementary Metal Oxide Semiconductor Silicon Polymerase Chain Reaction Chip with Integrated DNA Microarray. Analytical Chemistry, 2002, 74, 3168-3173.	6.5	91
43	Novel Fluorescent Labels Prepared by Layer-by-Layer Assembly on Colloids for Biodetection Systems. Materials Research Society Symposia Proceedings, 2001, 667, 1.	0.1	0
44	Layer-by-Layer Construction of Novel Biofunctional Fluorescent Microparticles for Immunoassay Applications. Journal of Colloid and Interface Science, 2001, 234, 356-362.	9.4	105
45	Microencapsulation of Uncharged Low Molecular Weight Organic Materials by Polyelectrolyte Multilayer Self-Assemblyâ€. Langmuir, 2000, 16, 8932-8936.	3.5	175
46	Enzyme Encapsulation in Layer-by-Layer Engineered Polymer Multilayer Capsules. Langmuir, 2000, 16, 1485-1488.	3.5	516
47	Comparison of Different Types of Immunoaffinity Reactors in an Electrochemical Flow Injection Immunoanalysis System Developed for Residue Analysis. Biocatalysis and Biotransformation, 1999, 17, 103-124.	2.0	5
48	Disposable Optical Sensor Chip for Medical Diagnostics:  New Ways in Bioanalysis. Analytical Chemistry, 1999, 71, 5430-5435.	6.5	90
49	New ways in bioanalysis—one-way optical sensor chip for environmental analysis. Sensors and Actuators B: Chemical, 1998, 51, 249-255.	7.8	20
50	Development of an amperometric flow injection immunoanalysis system for the determination of the herbicide 2,4-dichlorophenoxyacetic acid in water. Biosensors and Bioelectronics, 1997, 12, 499-510.	10.1	43