

# Eva-Kathrin Ehmoser

## List of Publications by Year in descending order

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74  
papers

2,038  
citations

236612

25  
h-index

253896

43  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Screening for Best Neuronal-Glial Differentiation Protocols of Neuralizing Agents Using a Multi-Sized Microfluidic Embryoid Body Array. <i>Pharmaceutics</i> , 2022, 14, 339.	2.0	0
2	Constitutive activation of integrin $\alpha_5\beta_1$ contributes to anoikis resistance of ovarian cancer cells. <i>Molecular Oncology</i> , 2021, 15, 503-522.	2.1	19
3	Supported polymer/lipid hybrid bilayers formation resembles a lipid-like dynamic by reducing the molecular weight of the polymer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183472.	1.4	2
4	Functional proteoliposome-like structure derived from simultaneous evisceration and enucleation of T-lymphoblastoid A3R5.7 cells: A top-down story. <i>Experimental Cell Research</i> , 2021, 400, 112487.	1.2	0
5	Investigations on inhibitory effects of nickel and cobalt salts on the decolorization of textile dyes by the white rot fungus <i>Phanerochaete velutina</i> . <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112093.	2.9	12
6	Enhancing the Cell-Free Expression of Native Membrane Proteins by In Silico Optimization of the Coding Sequence—An Experimental Study of the Human Voltage-Dependent Anion Channel. <i>Membranes</i> , 2021, 11, 741.	1.4	2
7	A critical review of the environmental impacts of manufactured nano-objects on earthworm species. <i>Environmental Pollution</i> , 2021, 290, 118041.	3.7	23
8	Testing the Applicability of the Safe-by-Design Concept: A Theoretical Case Study Using Polymer Nanoclay Composites for Coffee Capsules. <i>Sustainability</i> , 2021, 13, 13951.	1.6	2
9	Mobility and fate of ligand stabilized semiconductor nanoparticles in landfill leachates. <i>Journal of Hazardous Materials</i> , 2020, 394, 122477.	6.5	8
10	Capacitive coupling increases the accuracy of cell-specific tumour disruption by electric fields. <i>Bioelectrochemistry</i> , 2020, 134, 107495.	2.4	5
11	The Usual Suspects 2019: of Chips, Droplets, Synthesis, and Artificial Cells. <i>Micromachines</i> , 2019, 10, 285.	1.4	3
12	Effect of Spheroidal Age on Sorafenib Diffusivity and Toxicity in a 3D HepG2 Spheroid Model. <i>Scientific Reports</i> , 2019, 9, 4863.	1.6	52
13	Controllable cell manipulation in a microfluidic pipette-tip design using capacitive coupling of electric fields. <i>Lab on A Chip</i> , 2019, 19, 3997-4006.	3.1	7
14	Doping Method Determines Para- or Superparamagnetic Properties of Photostable and Surface-Modifiable Quantum Dots for Multimodal Bioimaging. <i>Chemistry of Materials</i> , 2018, 30, 4233-4241.	3.2	9
15	Cell-Free Approaches in Synthetic Biology Utilizing Microfluidics. <i>Genes</i> , 2018, 9, 144.	1.0	45
16	Optimized alamarBlue assay protocol for drug dose-response determination of 3D tumor spheroids. <i>MethodsX</i> , 2018, 5, 781-787.	0.7	44
17	Differential tumor biological role of the tumor suppressor KAI1 and its splice variant in human breast cancer cells. <i>Oncotarget</i> , 2018, 9, 6369-6390.	0.8	10
18	Development of a Multifunctional Nanobiointerface Based on Self-Assembled Fusion-Protein rSbpA/ZZ for Blood Cell Enrichment and Phenotyping. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34423-34434.	4.0	4

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19	The Effect of Nanosecond, High-Voltage Electric Pulses on the Shape and Permeability of Polymersome GUVs. <i>Journal of Membrane Biology</i> , 2017, 250, 441-453.	1.0	2
20	Preparation of water-soluble, PEGylated, mixed-dispersant quantum dots, with a preserved photoluminescence quantum yield. <i>RSC Advances</i> , 2016, 6, 27068-27076.	1.7	4
21	Journal of Membrane Biology: Biophysics. <i>Journal of Membrane Biology</i> , 2016, 249, 5-5.	1.0	1
22	Traceability of fluorescent engineered nanomaterials and their fate in complex liquid waste matrices. <i>Environmental Pollution</i> , 2016, 214, 795-805.	3.7	12
23	Liquid crystals as optical amplifiers for bacterial detection. <i>Biosensors and Bioelectronics</i> , 2016, 80, 161-170.	5.3	34
24	Synthesis and Functional Reconstitution of Light-Harvesting Complex II into Polymeric Membrane Architectures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14664-14668.	7.2	11
25	Functional Cell Adhesion Receptors (Integrins) in Polymeric Architectures. <i>ChemBioChem</i> , 2015, 16, 1740-1743.	1.3	8
26	Current limitations and challenges in nanowaste detection, characterisation and monitoring. <i>Waste Management</i> , 2015, 43, 407-420.	3.7	64
27	Nanoscale leg irons: harvesting of polymer-stabilized membrane proteins with antibody-functionalized silica nanoparticles. <i>Biomaterials Science</i> , 2015, 3, 1279-1283.	2.6	2
28	Probing Peptide and Protein Insertion in a Biomimetic S-Layer Supported Lipid Membrane Platform. <i>International Journal of Molecular Sciences</i> , 2015, 16, 2824-2838.	1.8	14
29	Inspired and stabilized by nature: ribosomal synthesis of the human voltage gated ion channel (VDAC) into 2D-protein-tethered lipid interfaces. <i>Biomaterials Science</i> , 2015, 3, 1406-1413.	2.6	28
30	Liquid crystal based sensors monitoring lipase activity: A new rapid and sensitive method for cytotoxicity assays. <i>Biosensors and Bioelectronics</i> , 2014, 56, 210-216.	5.3	37
31	Cell-free expression of a mammalian olfactory receptor and unidirectional insertion into small unilamellar vesicles (SUVs). <i>Biochimie</i> , 2013, 95, 1909-1916.	1.3	23
32	Biomimetic membrane platform containing hERG potassium channel and its application to drug screening. <i>Analyst</i> , 2013, 138, 2007.	1.7	27
33	In Vitro Expressed GPCR Inserted in Polymersome Membranes for Ligand-Binding Studies. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 749-753.	7.2	43
34	Biomimetic membrane platform: Fabrication, characterization and applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 510-516.	2.5	21
35	The Glycophorin A Transmembrane Sequence within Integrin $\alpha 2 \beta 3$ Creates a Non-Signaling Integrin with Low Basal Affinity That Is Strongly Adhesive under Force. <i>Journal of Molecular Biology</i> , 2013, 425, 2988-3006.	2.0	21
36	Purification and structural characterization of the voltage-sensor domain of the hERG potassium channel. <i>Protein Expression and Purification</i> , 2012, 86, 98-104.	0.6	9

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37	Selective Deposition and Self-Assembly of Triblock Copolymers into Matrix Arrays for Membrane Protein Production. <i>Langmuir</i> , 2012, 28, 2044-2048.	1.6	14
38	A novel microfluidics-based method for probing weak protein-protein interactions. <i>Lab on A Chip</i> , 2012, 12, 2726.	3.1	7
39	Cell-free synthesis of cytochrome bo <sub>3</sub> ubiquinol oxidase in artificial membranes. <i>Analytical Biochemistry</i> , 2012, 423, 39-45.	1.1	20
40	Synthetic biology, inspired by synthetic chemistry. <i>FEBS Letters</i> , 2012, 586, 2146-2156.	1.3	31
41	Proteopolymersomes: <i>In vitro</i> production of a membrane protein in polymersome membranes. <i>Biointerphases</i> , 2011, 6, 153-157.	0.6	68
42	Planar Block Copolymer Membranes by Vesicle Spreading. <i>Macromolecular Bioscience</i> , 2011, 11, 514-525.	2.1	40
43	Molecularly controlled functional architectures. <i>Materials Today</i> , 2010, 13, 46-55.	8.3	18
44	Biomimetic supported membranes from amphiphilic block copolymers. <i>Soft Matter</i> , 2010, 6, 179-186.	1.2	61
45	Cationized albumin-biocoatings for the immobilization of lipid vesicles. <i>Biointerphases</i> , 2010, 5, FA78-FA87.	0.6	17
46	Conformation and topology of amyloid $\beta$ -protein adsorbed on a tethered artificial membrane probed by surface plasmon field-enhanced fluorescence spectroscopy. <i>Journal of Structural Biology</i> , 2009, 168, 117-124.	1.3	8
47	Polymer-Tethered Bimolecular Lipid Membranes. <i>Advances in Polymer Science</i> , 2009, , 87-111.	0.4	17
48	The Effect of Fluid Flow on Selective Protein Adsorption on Polystyrene-block-Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	1.6	16
49	Homotrimeric Collagen Peptides As Model Systems For Cell Adhesion Studies. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 295-296.	0.8	2
50	Tethered bimolecular lipid membranes—A novel model membrane platform. <i>Electrochimica Acta</i> , 2008, 53, 6680-6689.	2.6	109
51	Preface. <i>Biointerphases</i> , 2008, 3, FA1-FA2.	0.6	1
52	Electrochemical switching of the flavoprotein dodecin at gold surfaces modified by flavin-DNA hybrid linkers. <i>Biointerphases</i> , 2008, 3, 51-58.	0.6	22
53	Imaging of G protein-coupled receptors in solid-supported planar lipid membranes. <i>Biointerphases</i> , 2008, 3, FA136-FA145.	0.6	19
54	Imaging of G protein-coupled receptors in solid-supported planar membranes at the single molecule level., 2008, , .		2

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55	Peptid-tethered bilayer lipid membranes and their interaction with Amyloid $\beta$ -peptide. <i>Biointerphases</i> , 2007, 2, 151-158.	0.6	14
56	Incorporation of In Vitro Synthesized GPCR into a Tethered Artificial Lipid Membrane System. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 605-608.	7.2	72
57	Recent and Expected Roles of Plasma-polymerized Films for Biomedical Applications. <i>Chemical Vapor Deposition</i> , 2007, 13, 280-294.	1.4	139
58	Sterol Binding Assay Using Surface Plasmon Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2006, 78, 547-555.	3.2	7
59	Binding assays with artificial tethered membranes using surface plasmon resonance. <i>Methods</i> , 2006, 39, 134-146.	1.9	28
60	In vivo detection of membrane protein expression using surface plasmon enhanced fluorescence spectroscopy (SPFS). <i>Biosensors and Bioelectronics</i> , 2006, 22, 260-267.	5.3	10
61	Photomodulation of conformational states. IV. Integrin-binding RGD-peptides with (4-aminomethyl)phenylazobenzoic acid as backbone constituent. <i>Biopolymers</i> , 2005, 77, 304-313.	1.2	24
62	Encapsulation in sub-micron species: A short review and alternate strategy for dye encapsulation. <i>IET Nanobiotechnology</i> , 2005, 152, 73.	2.1	15
63	Membrane Lateral Mobility Obstructed by Polymer-Tethered Lipids Studied at the Single Molecule Level. <i>Biophysical Journal</i> , 2005, 88, 1875-1886.	0.2	152
64	Surface Density Dependence of PCR Amplicon Hybridization on PNA/DNA Probe Layers. <i>Biophysical Journal</i> , 2005, 88, 2745-2751.	0.2	45
65	Surface plasmon field-enhanced fluorescence spectroscopy in PCR product analysis by peptide nucleic acid probes. <i>Nucleic Acids Research</i> , 2004, 32, e177-e177.	6.5	44
66	Supramolecular interfacial architectures for optical biosensing with surface plasmons. <i>Surface Science</i> , 2004, 570, 30-42.	0.8	42
67	Incorporation of integrins into artificial planar lipid membranes: characterization by plasmon-enhanced fluorescence spectroscopy. <i>Analytical Biochemistry</i> , 2004, 333, 216-224.	1.1	41
68	Supramolecular interfacial architectures for biosensing. , 2004, 5593, 253.		0
69	Functional Tethered Bilayer Lipid Membranes. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2004, , 239-253.	0.5	14
70	Photocontrol of Cell Adhesion Processes. <i>Chemistry and Biology</i> , 2003, 10, 487-490.	6.2	60
71	RNA DNA Discrimination by the Antitermination Protein NusB. <i>Journal of Molecular Biology</i> , 2003, 327, 973-983.	2.0	3
72	Binding and Docking of Synthetic Heterotrimeric Collagen Type IV Peptides with $\alpha 1(\beta 1)$ Integrin. <i>ChemBioChem</i> , 2002, 3, 904-907.	1.3	36

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73	Interaction of plasminogen activator inhibitor type-1 (PAI-1) with vitronectin. FEBS Journal, 2002, 269, 184-192.	0.2	39
74	Functional tethered membranes. Current Opinion in Chemical Biology, 2001, 5, 705-711.	2.8	159