

# 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	Functional tethered membranes. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 705-711.	2.8	159
2	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
3	Recent and Expected Roles of Plasma-Polymerized Films for Biomedical Applications. <i>Chemical Vapor Deposition</i> , 2007, 13, 280-294.	1.4	139
4	Tethered bimolecular lipid membranes—A novel model membrane platform. <i>Electrochimica Acta</i> , 2008, 53, 6680-6689.	2.6	109
5	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
6	Proteopolymerosomes: <i>In vitro</i> production of a membrane protein in polymersome membranes. <i>Biointerphases</i> , 2011, 6, 153-157.	0.6	68
7	Current limitations and challenges in nanowaste detection, characterisation and monitoring. <i>Waste Management</i> , 2015, 43, 407-420.	3.7	64
8	Biomimetic supported membranes from amphiphilic block copolymers. <i>Soft Matter</i> , 2010, 6, 179-186.	1.2	61
9	Photocontrol of Cell Adhesion Processes. <i>Chemistry and Biology</i> , 2003, 10, 487-490.	6.2	60
10	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
11	Surface Density Dependence of PCR Amplicon Hybridization on PNA/DNA Probe Layers. <i>Biophysical Journal</i> , 2005, 88, 2745-2751.	0.2	45
12	Cell-Free Approaches in Synthetic Biology Utilizing Microfluidics. <i>Genes</i> , 2018, 9, 144.	1.0	45
13	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
14	Optimized alamarBlue assay protocol for drug dose-response determination of 3D tumor spheroids. <i>MethodsX</i> , 2018, 5, 781-787.	0.7	44
15	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
16	Supramolecular interfacial architectures for optical biosensing with surface plasmons. <i>Surface Science</i> , 2004, 570, 30-42.	0.8	42
17	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
18	Planar Block Copolymer Membranes by Vesicle Spreading. <i>Macromolecular Bioscience</i> , 2011, 11, 514-525.	2.1	40

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19	Interaction of plasminogen activator inhibitor type-1 (PAI-1) with vitronectin. FEBS Journal, 2002, 269, 184-192.	0.2	39
20	Liquid crystal based sensors monitoring lipase activity: A new rapid and sensitive method for cytotoxicity assays. Biosensors and Bioelectronics, 2014, 56, 210-216.	5.3	37
21	Binding and Docking of Synthetic Heterotrimeric Collagen Type IV Peptides with $\alpha_1\beta_1$ Integrin. ChemBioChem, 2002, 3, 904-907.	1.3	36
22	Liquid crystals as optical amplifiers for bacterial detection. Biosensors and Bioelectronics, 2016, 80, 161-170.	5.3	34
23	Synthetic biology, inspired by synthetic chemistry. FEBS Letters, 2012, 586, 2146-2156.	1.3	31
24	Binding assays with artificial tethered membranes using surface plasmon resonance. Methods, 2006, 39, 134-146.	1.9	28
25	Inspired and stabilized by nature: ribosomal synthesis of the human voltage gated ion channel (VDAC) into 2D-protein-tethered lipid interfaces. Biomaterials Science, 2015, 3, 1406-1413.	2.6	28
26	Biomimetic membrane platform containing hERG potassium channel and its application to drug screening. Analyst, The, 2013, 138, 2007.	1.7	27
27	Photomodulation of conformational states. IV. Integrin-binding RGD-peptides with (4-aminomethyl)phenylazobenzoic acid as backbone constituent. Biopolymers, 2005, 77, 304-313.	1.2	24
28	Cell-free expression of a mammalian olfactory receptor and unidirectional insertion into small unilamellar vesicles (SUVs). Biochimie, 2013, 95, 1909-1916.	1.3	23
29	A critical review of the environmental impacts of manufactured nano-objects on earthworm species. Environmental Pollution, 2021, 290, 118041.	3.7	23
30	Electrochemical switching of the flavoprotein dodecin at gold surfaces modified by flavin-DNA hybrid linkers. Biointerphases, 2008, 3, 51-58.	0.6	22
31	Biomimetic membrane platform: Fabrication, characterization and applications. Colloids and Surfaces B: Biointerfaces, 2013, 103, 510-516.	2.5	21
32	The Glycophorin A Transmembrane Sequence within Integrin $\alpha_5\beta_3$ Creates a Non-Signaling Integrin with Low Basal Affinity That Is Strongly Adhesive under Force. Journal of Molecular Biology, 2013, 425, 2988-3006.	2.0	21
33	Cell-free synthesis of cytochrome bo3 ubiquinol oxidase in artificial membranes. Analytical Biochemistry, 2012, 423, 39-45.	1.1	20
34	Imaging of G protein-coupled receptors in solid-supported planar lipid membranes. Biointerphases, 2008, 3, FA136-FA145.	0.6	19
35	Constitutive activation of integrin $\alpha_5\beta_3$ contributes to anoikis resistance of ovarian cancer cells. Molecular Oncology, 2021, 15, 503-522.	2.1	19
36	Molecularly controlled functional architectures. Materials Today, 2010, 13, 46-55.	8.3	18

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37	Polymer-Tethered Bimolecular Lipid Membranes. <i>Advances in Polymer Science</i> , 2009, , 87-111.	0.4	17
38	Cationized albumin-biocoatings for the immobilization of lipid vesicles. <i>Biointerphases</i> , 2010, 5, FA78-FA87.	0.6	17
39	The Effect of Fluid Flow on Selective Protein Adsorption on Polystyrene-block-Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.6	16
40	Encapsulation in sub-micron species: A short review and alternate strategy for dye encapsulation. <i>IET Nanobiotechnology</i> , 2005, 152, 73.	2.1	15
41	Peptid-tethered bilayer lipid membranes and their interaction with Amyloid ÅŸ-peptide. <i>Biointerphases</i> , 2007, 2, 151-158.	0.6	14
42	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
43	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
44	Functional Tethered Bilayer Lipid Membranes. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2004, , 239-253.	0.5	14
45	Traceability of fluorescent engineered nanomaterials and their fate in complex liquid waste matrices. <i>Environmental Pollution</i> , 2016, 214, 795-805.	3.7	12
46	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
47	Synthesis and Functional Reconstitution of Lightâ€Harvesting Complex II into Polymeric Membrane Architectures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14664-14668.	7.2	11
48	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
49	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
50	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
51	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
52	Conformation and topology of amyloid Î²-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
53	Functional Cell Adhesion Receptors (Integrins) in Polymeric Architectures. <i>ChemBioChem</i> , 2015, 16, 1740-1743.	1.3	8
54	Mobility and fate of ligand stabilized semiconductor nanoparticles in landfill leachates. <i>Journal of Hazardous Materials</i> , 2020, 394, 122477.	6.5	8

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55	Sterol Binding Assay Using Surface Plasmon Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2006, 78, 547-555.	3.2	7
56	A novel microfluidics-based method for probing weak protein-protein interactions. <i>Lab on A Chip</i> , 2012, 12, 2726.	3.1	7
57	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
58	Capacitive coupling increases the accuracy of cell-specific tumour disruption by electric fields. <i>Bioelectrochemistry</i> , 2020, 134, 107495.	2.4	5
59	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
60	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
61	RNA DNA Discrimination by the Antitermination Protein NusB. <i>Journal of Molecular Biology</i> , 2003, 327, 973-983.	2.0	3
62	The Usual Suspects 2019: of Chips, Droplets, Synthesis, and Artificial Cells. <i>Micromachines</i> , 2019, 10, 285.	1.4	3
63	Imaging of G protein-coupled receptors in solid-supported planar membranes at the single molecule level. , 2008, , .		2
64	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
65	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
66	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
67	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
68	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
69	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
70	Preface. <i>Biointerphases</i> , 2008, 3, FA1-FA2.	0.6	1
71	Journal of Membrane Biology: Biophysics. <i>Journal of Membrane Biology</i> , 2016, 249, 5-5.	1.0	1
72	Supramolecular interfacial architectures for biosensing. , 2004, 5593, 253.		0

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73	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
74	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