# Eva-Kathrin Ehmoser

List of Publications by Year
in descending order



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|---|---|---|---|
| 74 papers | 2,038 citations | 236925 25 h-index | 254184 43 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 2509 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functional tethered membranes. Current Opinion in Chemical Biology, 2001, 5, 705-711. | 6.1 | 159 |
| 2 | Membrane Lateral Mobility Obstructed by Polymer-Tethered Lipids Studied at the Single Molecule Level. Biophysical Journal, 2005, 88, 1875-1886. | 0.5 | 152 |
| 3 | Recent and Expected Roles of Plasmaâ€Polymerized Films for Biomedical Applications. Chemical Vapor Deposition, 2007, 13, 280-294. | 1.3 | 139 |
| 4 | Tethered bimolecular lipid membranesâ€"A novel model membrane platform. Electrochimica Acta, 2008, 53, 6680-6689. | 5.2 | 109 |
| 5 | Incorporation of In Vitro Synthesized GPCR into a Tethered Artificial Lipid Membrane System. Angewandte Chemie - International Edition, 2007, 46, 605-608. | 13.8 | 72 |
| 6 | Proteopolymersomes: In vitro production of a membrane protein in polymersome membranes. Biointerphases, 2011, 6, 153-157. | 1.6 | 68 |
| 7 | Current limitations and challenges in nanowaste detection, characterisation and monitoring. Waste Management, 2015, 43, 407-420. | 7.4 | 64 |
| 8 | Biomimetic supported membranes from amphiphilic block copolymers. Soft Matter, 2010, 6, 179-186. | 2.7 | 61 |
| 9 | Photocontrol of Cell Adhesion Processes. Chemistry and Biology, 2003, 10, 487-490. | 6.0 | 60 |
| 10 | Effect of Spheroidal Age on Sorafenib Diffusivity and Toxicity in a 3D HepG2 Spheroid Model. Scientific Reports, 2019, 9, 4863. | 3.3 | 52 |
| 11 | Surface Density Dependence of PCR Amplicon Hybridization on PNA/DNA Probe Layers. Biophysical Journal, 2005, 88, 2745-2751. | 0.5 | 45 |
| 12 | Cell-Free Approaches in Synthetic Biology Utilizing Microfluidics. Genes, 2018, 9, 144. | 2.4 | 45 |
| 13 | Surface plasmon field-enhanced fluorescence spectroscopy in PCR product analysis by peptide nucleic acid probes. Nucleic Acids Research, 2004, 32, e177-e177. | 14.5 | 44 |
| 14 | Optimized alamarBlue assay protocol for drug dose-response determination of 3D tumor spheroids. MethodsX, 2018, 5, 781-787. | 1.6 | 44 |
| 15 | In Vitro Expressed GPCR Inserted in Polymersome Membranes for Ligandâ€Binding Studies. Angewandte Chemie - International Edition, 2013, 52, 749-753. | 13.8 | 43 |
| 16 | Supramolecular interfacial architectures for optical biosensing with surface plasmons. Surface Science, 2004, 570, 30-42. | 1.9 | 42 |
| 17 | Incorporation of integrins into artificial planar lipid membranes: characterization by plasmon-enhanced fluorescence spectroscopy. Analytical Biochemistry, 2004, 333, 216-224. | 2.4 | 41 |
| 18 | Planar Block Copolymer Membranes by Vesicle Spreading. Macromolecular Bioscience, 2011, 11, 514-525. | 4.1 | 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. | 10.1 | 37 |
| 21 | Binding and Docking of Synthetic Heterotrimeric Collagen Type IV Peptides with Î±1Î²1 Integrin. ChemBioChem, 2002, 3, 904-907. | 2.6 | 36 |
| 22 | Liquid crystals as optical amplifiers for bacterial detection. Biosensors and Bioelectronics, 2016, 80, 161-170. | 10.1 | 34 |
| 23 | Synthetic biology, inspired by synthetic chemistry. FEBS Letters, 2012, 586, 2146-2156. | 2.8 | 31 |
| 24 | Binding assays with artificial tethered membranes using surface plasmon resonance. Methods, 2006, 39, 134-146. | 3.8 | 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. | 5.4 | 28 |
| 26 | Biomimetic membrane platform containing hERG potassium channel and its application to drug screening. Analyst, The, 2013, 138, 2007. | 3.5 | 27 |
| 27 | Photomodulation of conformational states. IV. Integrin-binding RGD-peptides with (4-aminomethyl)phenylazobenzoic acid as backbone constituent. Biopolymers, 2005, 77, 304-313. | 2.4 | 24 |
| 28 | Cell-free expression of a mammalian olfactory receptor and unidirectional insertion into small unilamellar vesicles (SUVs). Biochimie, 2013, 95, 1909-1916. | 2.6 | 23 |
| 29 | A critical review of the environmental impacts of manufactured nano-objects on earthworm species. Environmental Pollution, 2021, 290, 118041. | 7.5 | 23 |
| 30 | Electrochemical switching of the flavoprotein dodecin at gold surfaces modified by flavin-DNA hybrid linkers. Biointerphases, 2008, 3, 51-58. | 1.6 | 22 |
| 31 | Biomimetic membrane platform: Fabrication, characterization and applications. Colloids and Surfaces B: Biointerfaces, 2013, 103, 510-516. | 5.0 | 21 |
| 32 | The Glycophorin A Transmembrane Sequence within Integrin Î±vÎ²3 Creates a Non-Signaling Integrin with Low Basal Affinity That Is Strongly Adhesive under Force. Journal of Molecular Biology, 2013, 425, 2988-3006. | 4.2 | 21 |
| 33 | Cell-free synthesis of cytochrome bo3 ubiquinol oxidase in artificial membranes. Analytical Biochemistry, 2012, 423, 39-45. | 2.4 | 20 |
| 34 | Imaging of G protein-coupled receptors in solid-supported planar lipid membranes. Biointerphases, 2008, 3, FA136-FA145. | 1.6 | 19 |
| 35 | Constitutive activation of integrin Î±vÎ²3 contributes to anoikis resistance of ovarian cancer cells. Molecular Oncology, 2021, 15, 503-522. | 4.6 | 19 |
| 36 | Molecularly controlled functional architectures. Materials Today, 2010, 13, 46-55. | 14.2 | 18 |

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|---|---|---|---|
| 37 | Polymer-Tethered Bimolecular Lipid Membranes. Advances in Polymer Science, 2009, , 87-111. | 0.8 | 17 |
| 38 | Cationized albumin-biocoatings for the immobilization of lipid vesicles. Biointerphases, 2010, 5, FA78-FA87. | 1.6 | 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 50 | 3.5 | 16 |
| 40 | Encapsulation in sub-micron species: A short review and alternate strategy for dye encapsulation. IET Nanobiotechnology, 2005, 152, 73. | 2.1 | 15 |
| 41 | Peptid-tethered bilayer lipid membranes and their interaction with Amyloid ÃŸ-peptide. Biointerphases, 2007, 2, 151-158. | 1.6 | 14 |
| 42 | Selective Deposition and Self-Assembly of Triblock Copolymers into Matrix Arrays for Membrane Protein Production. Langmuir, 2012, 28, 2044-2048. | 3.5 | 14 |
| 43 | Probing Peptide and Protein Insertion in a Biomimetic S-Layer Supported Lipid Membrane Platform. International Journal of Molecular Sciences, 2015, 16, 2824-2838. | 4.1 | 14 |
| 44 | Functional Tethered Bilayer Lipid Membranes. Springer Series on Chemical Sensors and Biosensors, 2004, , 239-253. | 0.5 | 14 |
| 45 | Traceability of fluorescent engineered nanomaterials and their fate in complex liquid waste matrices. Environmental Pollution, 2016, 214, 795-805. | 7.5 | 12 |
| 46 | Investigations on inhibitory effects of nickel and cobalt salts on the decolorization of textile dyes by the white rot fungus Phanerochaete velutina. Ecotoxicology and Environmental Safety, 2021, 215, 112093. | 6.0 | 12 |
| 47 | Synthesis and Functional Reconstitution of Lightâ€Harvesting Complex II into Polymeric Membrane Architectures. Angewandte Chemie - International Edition, 2015, 54, 14664-14668. | 13.8 | 11 |
| 48 | In vivo detection of membrane protein expression using surface plasmon enhanced fluorescence spectroscopy (SPFS). Biosensors and Bioelectronics, 2006, 22, 260-267. | 10.1 | 10 |
| 49 | Differential tumor biological role of the tumor suppressor KAI1 and its splice variant in human breast cancer cells. Oncotarget, 2018, 9, 6369-6390. | 1.8 | 10 |
| 50 | Purification and structural characterization of the voltage-sensor domain of the hERG potassium channel. Protein Expression and Purification, 2012, 86, 98-104. | 1.3 | 9 |
| 51 | Doping Method Determines Para- or Superparamagnetic Properties of Photostable and Surface-Modifiable Quantum Dots for Multimodal Bioimaging. Chemistry of Materials, 2018, 30, 4233-4241. | 6.7 | 9 |
| 52 | Conformation and topology of amyloid Î²-protein adsorbed on a tethered artificial membrane probed by surface plasmon field-enhanced fluorescence spectroscopy. Journal of Structural Biology, 2009, 168, 117-124. | 2.8 | 8 |
| 53 | Functional Cell Adhesion Receptors (Integrins) in Polymeric Architectures. ChemBioChem, 2015, 16, 1740-1743. | 2.6 | 8 |
| 54 | Mobility and fate of ligand stabilized semiconductor nanoparticles in landfill leachates. Journal of Hazardous Materials, 2020, 394, 122477. | 12.4 | 8 |

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| 55 | Sterol Binding Assay Using Surface Plasmon Fluorescence Spectroscopy. Analytical Chemistry, 2006, 78, 547-555. | 6.5 | 7 |
| 56 | A novel microfluidics-based method for probing weak proteinâ€“protein interactions. Lab on A Chip, 2012, 12, 2726. | 6.0 | 7 |
| 57 | Controllable cell manipulation in a microfluidic pipette-tip design using capacitive coupling of electric fields. Lab on A Chip, 2019, 19, 3997-4006. | 6.0 | 7 |
| 58 | Capacitive coupling increases the accuracy of cell-specific tumour disruption by electric fields. Bioelectrochemistry, 2020, 134, 107495. | 4.6 | 5 |
| 59 | Preparation of water-soluble, PEGylated, mixed-dispersant quantum dots, with a preserved photoluminescence quantum yield. RSC Advances, 2016, 6, 27068-27076. | 3.6 | 4 |
| 60 | Development of a Multifunctional Nanobiointerface Based on Self-Assembled Fusion-Protein rSbpA/ZZ for Blood Cell Enrichment and Phenotyping. ACS Applied Materials & Interfaces, 2017, 9, 34423-34434. | 8.0 | 4 |
| 61 | RNA DNA Discrimination by the Antitermination Protein NusB. Journal of Molecular Biology, 2003, 327, 973-983. | 4.2 | 3 |
| 62 | The Usual Suspects 2019: of Chips, Droplets, Synthesis, and Artificial Cells. Micromachines, 2019, 10, 285. | 2.9 | 3 |
| 63 | Imaging of G protein-coupled receptors in solid-supported planar membranes at the single molecule level. , 2008, , . | | 2 |
| 64 | Nanoscopic leg irons: harvesting of polymer-stabilized membrane proteins with antibody-functionalized silica nanoparticles. Biomaterials Science, 2015, 3, 1279-1283. | 5.4 | 2 |
| 65 | The Effect of Nanosecond, High-Voltage Electric Pulses on the Shape and Permeability of Polymersome GUVs. Journal of Membrane Biology, 2017, 250, 441-453. | 2.1 | 2 |
| 66 | Supported polymer/lipid hybrid bilayers formation resembles a lipid-like dynamic by reducing the molecular weight of the polymer. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183472. | 2.6 | 2 |
| 67 | Enhancing the Cell-Free Expression of Native Membrane Proteins by In Silico Optimization of the Coding Sequenceâ€”An Experimental Study of the Human Voltage-Dependent Anion Channel. Membranes, 2021, 11, 741. | 3.0 | 2 |
| 68 | Homotrimeric Collagen Peptides As Model Systems For Cell Adhesion Studies. Advances in Experimental Medicine and Biology, 2009, 611, 295-296. | 1.6 | 2 |
| 69 | Testing the Applicability of the Safe-by-Design Concept: A Theoretical Case Study Using Polymer Nanoclay Composites for Coffee Capsules. Sustainability, 2021, 13, 13951. | 3.2 | 2 |
| 70 | Preface. Biointerphases, 2008, 3, FA1-FA2. | 1.6 | 1 |
| 71 | Journal of Membrane Biology: Biophysics. Journal of Membrane Biology, 2016, 249, 5-5. | 2.1 | 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 A3R5.7Âcells: A top-down story. Experimental Cell Research, 2021, 400, 112487. | 2.6 | 0 |
| 74 | Screening for Best Neuronal-Glial Differentiation Protocols of Neuralizing Agents Using a Multi-Sized Microfluidic Embryoid Body Array. Pharmaceutics, 2022, 14, 339. | 4.5 | 0 |