

Christof M Niemeyer

List of Publications by Year in descending order

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289
papers

18,127
citations

11646

70
h-index

16180

124
g-index

345
all docs

345
docs citations

345
times ranked

14474
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nanoparticles, Proteins, and Nucleic Acids: Biotechnology Meets Materials Science. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4128-4158. | 13.8 | 2,229 |
| 2 | Chemical Strategies for Generating Protein Biochips. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9618-9647. | 13.8 | 551 |
| 3 | Rational Design of DNA Nanoarchitectures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1856-1876. | 13.8 | 518 |
| 4 | Semisynthetic DNA-Protein Conjugates for Biosensing and Nanofabrication. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1200-1216. | 13.8 | 338 |
| 5 | Oligonucleotide-directed self-assembly of proteins: semisynthetic DNA-streptavidin hybrid molecules as connectors for the generation of macroscopic arrays and the construction of supramolecular bioconjugates. <i>Nucleic Acids Research</i> , 1994, 22, 5530-5539. | 14.5 | 326 |
| 6 | On the Generation of Free Radical Species from Quantum Dots. <i>Small</i> , 2005, 1, 706-709. | 10.0 | 322 |
| 7 | DNA Origami: The Art of Folding DNA. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 58-66. | 13.8 | 320 |
| 8 | Immuno-PCR: high sensitivity detection of proteins by nucleic acid amplification. <i>Trends in Biotechnology</i> , 2005, 23, 208-216. | 9.3 | 291 |
| 9 | Orthogonal Protein Decoration of DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9378-9383. | 13.8 | 259 |
| 10 | Self-assembled nanostructures based on DNA: towards the development of nanobiotechnology. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 609-618. | 6.1 | 239 |
| 11 | Covalent DNA-Streptavidin Conjugates as Building Blocks for Novel Biometallic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2265-2268. | 13.8 | 209 |
| 12 | ¹⁸ F-Labeling of Peptides by means of an Organosilicon-Based Fluoride Acceptor. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6047-6050. | 13.8 | 205 |
| 13 | Self-assembly of DNA-streptavidin nanostructures and their use as reagents in immuno-PCR. <i>Nucleic Acids Research</i> , 1999, 27, 4553-4561. | 14.5 | 197 |
| 14 | Crown Ethers with a Lewis Acidic Center: A New Class of Heterotopic Host Molecules. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1472-1474. | 4.4 | 191 |
| 15 | DNA-Directed Assembly of Bimolecular Complexes from In Vivo Biotinylated NAD(P)H:FMN Oxidoreductase and Luciferase. <i>ChemBioChem</i> , 2002, 3, 242-245. | 2.6 | 190 |
| 16 | Functionalization of DNA nanostructures with proteins. <i>Chemical Society Reviews</i> , 2011, 40, 5910. | 38.1 | 188 |
| 17 | Staudinger Ligation: A New Immobilization Strategy for the Preparation of Small-Molecule Arrays. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5830-5834. | 13.8 | 186 |
| 18 | The developments of semisynthetic DNA-protein conjugates. <i>Trends in Biotechnology</i> , 2002, 20, 395-401. | 9.3 | 181 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Photochemical Surface Patterning by the Thiol-Ene Reaction. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4421-4424. | 13.8 | 179 |
| 20 | DNA-Directed Functionalization of Colloidal Gold with Proteins This work was supported by Deutsche Forschungsgemeinschaft and Fonds der Chemischen Industrie. We thank Prof. D. Blohm for helpful discussions and generous support.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3685. | 13.8 | 177 |
| 21 | DNA microarrays with PAMAM dendritic linker systems. <i>Nucleic Acids Research</i> , 2002, 30, 10e-10. | 14.5 | 175 |
| 22 | Nanomechanical Devices Based on DNA. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3779-3783. | 13.8 | 166 |
| 23 | DNA-Directed Immobilization: Efficient, Reversible, and Site-Selective Surface Binding of Proteins by Means of Covalent DNA-Streptavidin Conjugates. <i>Analytical Biochemistry</i> , 1999, 268, 54-63. | 2.4 | 157 |
| 24 | Performance of antibody microarrays fabricated by either DNA-directed immobilization, direct spotting, or streptavidin-biotin attachment: a comparative study. <i>Analytical Biochemistry</i> , 2004, 330, 281-287. | 2.4 | 157 |
| 25 | Diels-Alder Ligation and Surface Immobilization of Proteins. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 296-301. | 13.8 | 149 |
| 26 | Reversible Switching of DNA-Gold Nanoparticle Aggregation. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6469-6471. | 13.8 | 147 |
| 27 | DNA Microarrays. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2865-2869. | 13.8 | 145 |
| 28 | Cascades in Compartments: En Route to Machine-Assisted Biotechnology. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13574-13589. | 13.8 | 145 |
| 29 | Detecting antigens by quantitative immuno-PCR. <i>Nature Protocols</i> , 2007, 2, 1918-1930. | 12.0 | 144 |
| 30 | Site-Selective Protein Immobilization by Staudinger Ligation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1408-1412. | 13.8 | 136 |
| 31 | DNA-directed assembly of artificial multienzyme complexes. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 62-67. | 2.1 | 128 |
| 32 | Self-Assembled Donor Comprising Quantum Dots and Fluorescent Proteins for Long-Range Fluorescence Resonance Energy Transfer. <i>Journal of the American Chemical Society</i> , 2008, 130, 4815-4827. | 13.7 | 126 |
| 33 | Sensitivity by combination: immuno-PCR and related technologies. <i>Analyst, The</i> , 2008, 133, 702. | 3.5 | 122 |
| 34 | From DNA Nanotechnology to Material Systems Engineering. <i>Advanced Materials</i> , 2019, 31, e1806294. | 21.0 | 119 |
| 35 | Functional Hybrid Devices of Proteins and Inorganic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5796-5800. | 13.8 | 118 |
| 36 | “Belt and Braces” A Peptide-Based Linker System of de Novo Design. <i>Journal of the American Chemical Society</i> , 2003, 125, 9388-9394. | 13.7 | 118 |

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| 37 | Nanohybrids Composed of Quantum Dots and Cytochrome P450 as Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 504-507. | 13.8 | 117 |
| 38 | DNA-Based Assembly of Metal Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3641-3655. | 2.0 | 116 |
| 39 | Apoenzyme Reconstitution as a Chemical Tool for Structural Enzymology and Biotechnology. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1550-1574. | 13.8 | 116 |
| 40 | Covalent Hemin-DNA Adducts for Generating a Novel Class of Artificial Heme Enzymes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2603-2606. | 13.8 | 115 |
| 41 | DNA-Mediated Assembly of Cytochrome P450 BM3 Subdomains. <i>Journal of the American Chemical Society</i> , 2011, 133, 16111-16118. | 13.7 | 109 |
| 42 | DDI-1/4FIA-A Readily Configurable Microarray-Fluorescence Immunoassay Based on DNA-Directed Immobilization of Proteins. <i>ChemBioChem</i> , 2004, 5, 453-459. | 2.6 | 104 |
| 43 | Applications of Protein Biochips in Biomedical and Biotechnological Research. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7744-7751. | 13.8 | 103 |
| 44 | Human High Temperature Requirement Serine Protease A1 (HTRA1) Degrades Tau Protein Aggregates. <i>Journal of Biological Chemistry</i> , 2012, 287, 20931-20941. | 3.4 | 103 |
| 45 | Oligofunctional DNA-Gold Nanoparticle Conjugates. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5766-5770. | 13.8 | 95 |
| 46 | Oriented Immobilization of Farnesylated Proteins by the Thiol-Ene Reaction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1252-1257. | 13.8 | 93 |
| 47 | Site-selective immobilization of gold nanoparticles functionalized with DNA oligomers. <i>Colloid and Polymer Science</i> , 2001, 279, 68-72. | 2.1 | 92 |
| 48 | Magneto Immuno-PCR: A novel immunoassay based on biogenic magnetosome nanoparticles. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 391-396. | 2.1 | 90 |
| 49 | Advances in DNA-directed immobilization. <i>Current Opinion in Chemical Biology</i> , 2014, 18, 8-15. | 6.1 | 90 |
| 50 | A real-time immuno-PCR assay for routine ultrasensitive quantification of proteins. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 240-250. | 2.1 | 89 |
| 51 | Assembly and Purification of Enzyme-Functionalized DNA Origami Structures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6745-6750. | 13.8 | 88 |
| 52 | Multiscale Origami Structures as Interface for Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15813-15817. | 13.8 | 87 |
| 53 | Fluorometric Polymerase Chain Reaction (PCR) Enzyme-Linked Immunosorbent Assay for Quantification of Immuno-PCR Products in Microplates. <i>Analytical Biochemistry</i> , 1997, 246, 140-145. | 2.4 | 86 |
| 54 | Toward Multiprotein Nanoarrays Using Nanografting and DNA Directed Immobilization of Proteins. <i>Nano Letters</i> , 2009, 9, 2614-2618. | 9.1 | 83 |

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| 55 | Combination of DNA-directed immobilization and immuno-PCR: very sensitive antigen detection by means of self-assembled DNA-protein conjugates. <i>Nucleic Acids Research</i> , 2003, 31, 90e-90. | 14.5 | 82 |
| 56 | Synthesis of protein-nucleic acid conjugates by expressed protein ligation. <i>Chemical Communications</i> , 2003, , 822-823. | 4.1 | 81 |
| 57 | Sensitive Detection of Proteins Using Difunctional DNA-Gold Nanoparticles. <i>Small</i> , 2005, 1, 844-848. | 10.0 | 81 |
| 58 | “DNA Origami Traffic Lights” with a Split Aptamer Sensor for a Bicolor Fluorescence Readout. <i>Nano Letters</i> , 2017, 17, 2467-2472. | 9.1 | 81 |
| 59 | Nucleic Acid Supercoiling as a Means for Ionic Switching of DNA-Nanoparticle Networks. <i>ChemBioChem</i> , 2001, 2, 260-264. | 2.6 | 80 |
| 60 | A Microarray Strategy for Mapping the Substrate Specificity of Protein Tyrosine Phosphatase. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7700-7703. | 13.8 | 80 |
| 61 | DNA as a Material for Nanotechnology. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 585-587. | 4.4 | 79 |
| 62 | Self-Immobilizing Fusion Enzymes for Compartmentalized Biocatalysis. <i>ACS Catalysis</i> , 2017, 7, 7866-7872. | 11.2 | 79 |
| 63 | Functional devices from DNA and proteins. <i>Nano Today</i> , 2007, 2, 42-52. | 11.9 | 76 |
| 64 | Self-Assembling All-Enzyme Hydrogels for Flow Biocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17028-17032. | 13.8 | 76 |
| 65 | Dynamic Light-Scattering Analysis of the Electrostatic Interaction of Hexahistidine-Tagged Cytochrome P450 Enzyme with Semiconductor Quantum Dots. <i>ChemPhysChem</i> , 2006, 7, 1112-1118. | 2.1 | 74 |
| 66 | Heterotopic Host Molecules for Binding Two Different Guests. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1474-1476. | 4.4 | 73 |
| 67 | Synthesis of fluorescent oligonucleotide-EYFP conjugate: Towards supramolecular construction of semisynthetic biomolecular antennae. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2203-2206. | 2.8 | 71 |
| 68 | DNA-Directed Immobilization of Horseradish Peroxidase-DNA Conjugates on Microelectrode Arrays: Towards Electrochemical Screening of Enzyme Libraries. <i>Chemistry - A European Journal</i> , 2007, 13, 5223-5231. | 3.3 | 70 |
| 69 | Progress in "engineering up" nanotechnology devices utilizing DNA as a construction material. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 68, 119-124. | 2.3 | 68 |
| 70 | Multifunctional Silica Nanoparticles for Covalent Immobilization of Highly Sensitive Proteins. <i>Advanced Materials</i> , 2015, 27, 7945-7950. | 21.0 | 64 |
| 71 | Dynamic scanning force microscopy study of self-assembled DNA-protein nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, 447-452. | 2.3 | 63 |
| 72 | Photocatalytic activity of colloidal CdS nanoparticles with different capping ligands. <i>Journal of Materials Chemistry</i> , 2009, 19, 6348. | 6.7 | 63 |

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| 73 | Bifunctional DNA-gold nanoparticle conjugates as building blocks for the self-assembly of cross-linked particle layers. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 995-999. | 2.1 | 62 |
| 74 | Nanomechanische Bauelemente auf DNA-Basis. <i>Angewandte Chemie</i> , 2002, 114, 3933-3937. | 2.0 | 61 |
| 75 | Light-Induced Triggering of Peroxidase Activity Using Quantum Dots. <i>ChemBioChem</i> , 2007, 8, 2195-2198. | 2.6 | 61 |
| 76 | Detection of rViscumin in plasma samples by immuno-PCR. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 757-763. | 2.1 | 60 |
| 77 | Bioorganic Applications of Semisynthetic DNA-Protein Conjugates. <i>Chemistry - A European Journal</i> , 2001, 7, 3188-3195. | 3.3 | 59 |
| 78 | Tumor-Associated MUC1 Tandem-Repeat Glycopeptide Microarrays to Evaluate Serum and Monoclonal Antibody Specificity. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8263-8267. | 13.8 | 58 |
| 79 | Biochips for Cell Biology by Combined Dip-Pen Nanolithography and DNA-Directed Protein Immobilization. <i>Small</i> , 2013, 9, 4243-4249. | 10.0 | 58 |
| 80 | Lithium Ion Recognition with Nanofluidic Diodes through Host-Guest Complexation in Confined Geometries. <i>Analytical Chemistry</i> , 2018, 90, 6820-6826. | 6.5 | 56 |
| 81 | Reagent control in the aldol addition of chiral boron enolates based on the 2,5-diphenylborolane ligand system. <i>Tetrahedron Letters</i> , 1990, 31, 3863-3866. | 1.4 | 55 |
| 82 | Semisynthetic Biogenic Magnetosome Nanoparticles for the Detection of Proteins and Nucleic Acids. <i>Small</i> , 2006, 2, 1251-1255. | 10.0 | 54 |
| 83 | High-Quality Mapping of DNA-Protein Complexes by Dynamic Scanning Force Microscopy. <i>ChemPhysChem</i> , 2001, 2, 384-388. | 2.1 | 53 |
| 84 | Generation of Live-Cell Microarrays by Means of DNA-Directed Immobilization of Specific Cell-Surface Ligands. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4180-4183. | 13.8 | 53 |
| 85 | Characterization of the Peroxidase Activity of CYP119, a Thermostable P450 From <i>Sulfolobus acidocaldarius</i> . <i>ChemBioChem</i> , 2008, 9, 420-425. | 2.6 | 52 |
| 86 | Preparation of Biomolecule Microstructures and Microarrays by Thiol-ene Photoimmobilization. <i>ChemBioChem</i> , 2010, 11, 235-247. | 2.6 | 50 |
| 87 | Label-Free Pyrophosphate Recognition with Functionalized Asymmetric Nanopores. <i>Small</i> , 2016, 12, 2014-2021. | 10.0 | 49 |
| 88 | On-Demand Production of Flow-Reactor Cartridges by 3D Printing of Thermostable Enzymes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5539-5543. | 13.8 | 49 |
| 89 | NANOTECHNOLOGY: Tools for the Biomolecular Engineer. <i>Science</i> , 2002, 297, 62-63. | 12.6 | 48 |
| 90 | Detection of Rotavirus from stool samples using a standardized immuno-PCR (Imperacer) method with end-point and real-time detection. <i>Biochemical and Biophysical Research Communications</i> , 2005, 333, 1289-1294. | 2.1 | 48 |

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| 91 | Kinetic Analysis of Semisynthetic Peroxidase Enzymes Containing a Covalent DNA-Heme Adduct as the Cofactor. <i>Chemistry - A European Journal</i> , 2006, 12, 7448-7457. | 3.3 | 48 |
| 92 | Ionic Transport through Chemically Functionalized Hydrogen Peroxide-Sensitive Asymmetric Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19541-19545. | 8.0 | 47 |
| 93 | Hybridization Characteristics of Biomolecular Adaptors, Covalent DNA-Streptavidin Conjugates. <i>Bioconjugate Chemistry</i> , 1998, 9, 168-175. | 3.6 | 46 |
| 94 | Orthogonal Protein Decoration of DNA Nanostructures. <i>Small</i> , 2011, 7, 3211-3218. | 10.0 | 45 |
| 95 | Orthogonal Surface Tags for Whole-Cell Biocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2183-2186. | 13.8 | 45 |
| 96 | A Facile Method for Preparation of Tailored Scaffolds for DNA-Oligami. <i>Small</i> , 2014, 10, 73-77. | 10.0 | 44 |
| 97 | DNA Surface Technology: From Gene Sensors to Integrated Systems for Life and Materials Sciences. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16959-16967. | 13.8 | 44 |
| 98 | Microarray-Based in vitro Evaluation of DNA Oligomer Libraries Designed in silico. <i>ChemPhysChem</i> , 2004, 5, 367-372. | 2.1 | 43 |
| 99 | Direct Readout of Protein-Protein Interactions by Mass Spectrometry from Protein-DNA Microarrays. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7635-7639. | 13.8 | 43 |
| 100 | Dendritic DNA Building Blocks for Amplified Detection Assays and Biomaterials. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5996-6000. | 13.8 | 43 |
| 101 | A Protein-Interaction Array Inside a Living Cell. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4790-4794. | 13.8 | 43 |
| 102 | Engineering and assaying of cytochrome P450 biocatalysts. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 1059-1073. | 3.7 | 42 |
| 103 | Surface immobilization of biomolecules by click sulfonamide reaction. <i>Chemical Communications</i> , 2008, , 3723. | 4.1 | 42 |
| 104 | Highly sensitive ligand-binding assays in pre-clinical and clinical applications: immuno-PCR and other emerging techniques. <i>Analyst</i> , 2015, 140, 6175-6194. | 3.5 | 41 |
| 105 | A Rationally Designed Connector for Assembly of Protein-Functionalized DNA Nanostructures. <i>ChemBioChem</i> , 2016, 17, 1102-1106. | 2.6 | 41 |
| 106 | Nanostructured DNA-Protein Aggregates Consisting of Covalent Oligonucleotide-Streptavidin Conjugates. <i>Bioconjugate Chemistry</i> , 2001, 12, 364-371. | 3.6 | 40 |
| 107 | Synthesis of covalent DNA-protein conjugates by expressed protein ligation. <i>Molecular BioSystems</i> , 2005, 1, 64. | 2.9 | 40 |
| 108 | Reversible Binding of Fluorescent Proteins at DNA-Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6827-6830. | 13.8 | 40 |

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| 109 | Tuning of Peroxidase Activity by Covalently Tethered DNA Oligonucleotides. <i>Bioconjugate Chemistry</i> , 2009, 20, 969-975. | 3.6 | 40 |
| 110 | High-Throughput, Real-Time Monitoring of the Self-Assembly of DNA Nanostructures by FRET Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2135-2137. | 13.8 | 39 |
| 111 | Reversible Reconfiguration of DNA Origami Nanochambers Monitored by Single-Molecule FRET. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3592-3597. | 13.8 | 39 |
| 112 | MOF-Hosted Enzymes for Continuous Flow Catalysis in Aqueous and Organic Solvents. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 39 |
| 113 | Hapten-Functionalized DNA-Streptavidin Nanocircles as Supramolecular Reagents in a Competitive Immuno-PCR Assay. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3169-3172. | 13.8 | 38 |
| 114 | Co-Molecular Activity Painting: Switch-Like, Light-Controlled Perturbations inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5916-5920. | 13.8 | 38 |
| 115 | Biocompatibility of Amine-Functionalized Silica Nanoparticles: The Role of Surface Coverage. <i>Small</i> , 2019, 15, e1805400. | 10.0 | 38 |
| 116 | Semi-synthetic DNA-protein conjugates: novel tools in analytics and nanobiotechnology. <i>Biochemical Society Transactions</i> , 2004, 32, 51-53. | 3.4 | 37 |
| 117 | User Configurable Microfluidic Device for Multiplexed Immunoassays Based on DNA-Directed Assembly. <i>Analytical Chemistry</i> , 2009, 81, 1275-1279. | 6.5 | 37 |
| 118 | Configurable Low-Cost Plotter Device for Fabrication of Multi-Color Sub-Cellular Scale Microarrays. <i>Small</i> , 2014, 10, 2870-2876. | 10.0 | 37 |
| 119 | Functionalization of Covalent DNA-Streptavidin Conjugates by Means of Biotinylated Modulator Components. <i>Bioconjugate Chemistry</i> , 1999, 10, 708-719. | 3.6 | 36 |
| 120 | Formation of electrically conducting DNA-assembled gold nanoparticle monolayers. <i>Journal of Materials Chemistry</i> , 2006, 16, 1338. | 6.7 | 35 |
| 121 | A Single-Molecule Förster Resonance Energy Transfer Analysis of Fluorescent DNA-Protein Conjugates for Nanobiotechnology. <i>Small</i> , 2006, 2, 1083-1089. | 10.0 | 35 |
| 122 | Analysis of heme-reconstitution of apoenzymes by means of surface plasmon resonance. <i>Chemical Communications</i> , 2009, , 230-232. | 4.1 | 35 |
| 123 | The Chemistry of Cyborgs: Interfacing Technical Devices with Organisms. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13942-13957. | 13.8 | 35 |
| 124 | Designer DNA-silica/carbon nanotube nanocomposites for traceable and targeted drug delivery. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2250-2255. | 5.8 | 35 |
| 125 | DNA Microarrays as Decoding Tools in Combinatorial Chemistry and Chemical Biology. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3179-3183. | 13.8 | 34 |
| 126 | Immuno-PCR assays for immunogenicity testing. <i>Biochemical and Biophysical Research Communications</i> , 2009, 387, 278-282. | 2.1 | 34 |

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| 127 | Designed Intercalators for Modification of DNA Origami Surface Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 9440-9446. | 3.3 | 34 |
| 128 | Carbon-nanotube reinforcement of DNA-silica nanocomposites yields programmable and cell-instructive biocoatings. <i>Nature Communications</i> , 2019, 10, 5522. | 12.8 | 34 |
| 129 | Self-Assembly of Crosslinked DNA-Gold Nanoparticle Layers Visualized by In-Situ Scanning Force Microscopy. <i>Advanced Materials</i> , 2005, 17, 1643-1647. | 21.0 | 33 |
| 130 | Microtiter Plate-Based Screening for the Optimization of DNA-Protein Conjugate Synthesis by Means of Expressed Protein Ligation. <i>ChemBioChem</i> , 2007, 8, 61-67. | 2.6 | 33 |
| 131 | Capture and Culturing of Living Cells on Microstructured DNA Substrates. <i>Small</i> , 2010, 6, 2162-2168. | 10.0 | 33 |
| 132 | Biopebbles: DNA-Functionalized Core-Shell Silica Nanospheres for Cellular Uptake and Cell Guidance Studies. <i>Advanced Functional Materials</i> , 2018, 28, 1707572. | 14.9 | 33 |
| 133 | 3D-Printed Phenacrylate Decarboxylase Flow Reactors for the Chemoenzymatic Synthesis of 4-Hydroxystilbene. <i>Chemistry - A European Journal</i> , 2019, 25, 15998-16001. | 3.3 | 33 |
| 134 | Valency engineering of monomeric enzymes for self-assembling biocatalytic hydrogels. <i>Chemical Science</i> , 2019, 10, 9752-9757. | 7.4 | 33 |
| 135 | Molecular Recognition of Primary Amines by Three-Point Binding with Boron-Containing Host Molecules. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1017-1019. | 4.4 | 32 |
| 136 | A generic building block for C- and N-terminal protein-labeling and protein-immobilization. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6288-6306. | 3.0 | 32 |
| 137 | Addressable Microfluidic Polymer Chip for DNA-Directed Immobilization of Oligonucleotide-Tagged Compounds. <i>Small</i> , 2009, 5, 1547-1552. | 10.0 | 32 |
| 138 | Cesium-Induced Ionic Conduction through a Single Nanofluidic Pore Modified with Calixcrown Moieties. <i>Langmuir</i> , 2017, 33, 9170-9177. | 3.5 | 32 |
| 139 | Heterotope Wirtmoleküle zur Einlagerung von zwei verschiedenen Gästen. <i>Angewandte Chemie</i> , 1991, 103, 1517-1519. | 2.0 | 31 |
| 140 | Rational Engineering of Dynamic DNA Systems. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3871-3873. | 13.8 | 29 |
| 141 | DNA-Modification of Eukaryotic Cells. <i>Small</i> , 2013, 9, 255-262. | 10.0 | 29 |
| 142 | Rapid synthesis of DNA-cysteine conjugates for expressed protein ligation. <i>Biochemical and Biophysical Research Communications</i> , 2005, 335, 943-948. | 2.1 | 27 |
| 143 | Temperature-dependent FRET spectroscopy for the high-throughput analysis of self-assembled DNA nanostructures in real time. <i>Nature Protocols</i> , 2009, 4, 271-285. | 12.0 | 27 |
| 144 | Conjugation of Fluorescent Proteins with DNA Oligonucleotides. <i>Bioconjugate Chemistry</i> , 2010, 21, 921-927. | 3.6 | 27 |

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