

# Helmuth Moehwald

## List of Publications by Year in descending order

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895  
papers

72,717  
citations

518

131  
h-index

1875

215  
g-index

955  
all docs

955  
docs citations

955  
times ranked

49393  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Nanoengineering of Inorganic and Hybrid Hollow Spheres by Colloidal Templating. , 1998, 282, 1111-1114.  |      | 3,921     |
| 2  | Novel Hollow Polymer Shells by Colloid-Templated Assembly of Polyelectrolytes. Angewandte Chemie - International Edition, 1998, 37, 2201-2205.                                   | 7.2  | 1,735     |
| 3  | Structure and phase transitions in Langmuir monolayers. Reviews of Modern Physics, 1999, 71, 779-819.  | 16.4 | 1,361     |
| 4  | Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.   | 7.3  | 976       |
| 5  | Assembly, structural characterization, and thermal behavior of layer-by-layer deposited ultrathin films of poly(vinyl sulfate) and poly(allylamine). Langmuir, 1993, 9, 481-486. | 1.6  | 897       |
| 6  | Halloysite Clay Nanotubes for Controlled Release of Protective Agents. ACS Nano, 2008, 2, 814-820.   | 7.3  | 822       |
| 7  | Layer-by-layer self assembly of polyelectrolytes on colloidal particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 137, 253-266.                   | 2.3  | 758       |
| 8  | Strongly Photoluminescent CdTe Nanocrystals by Proper Surface Modification. Journal of Physical Chemistry B, 1998, 102, 8360-8363.   | 1.2  | 678       |
| 9  | Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. Advanced Materials, 2006, 18, 1672-1678.  | 11.1 | 653       |
| 10 | Stimuli-responsive LbL capsules and nanoshells for drug delivery. Advanced Drug Delivery Reviews, 2011, 63, 730-747.   | 6.6  | 626       |
| 11 | Stepwise polyelectrolyte assembly on particle surfaces: a novel approach to colloid design. Polymers for Advanced Technologies, 1998, 9, 759-767.                                | 1.6  | 615       |
| 12 | Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. Chemistry of Materials, 2007, 19, 402-411.                         | 3.2  | 556       |
| 13 | The Role of Metal Nanoparticles in Remote Release of Encapsulated Materials. Nano Letters, 2005, 5, 1371-1377.   | 4.5  | 533       |
| 14 | Enzyme Encapsulation in Layer-by-Layer Engineered Polymer Multilayer Capsules. Langmuir, 2000, 16, 1485-1488.  | 1.6  | 516       |
| 15 | Electrostatic Self-Assembly of Silica Nanoparticle~Polyelectrolyte Multilayers on Polystyrene Latex Particles. Journal of the American Chemical Society, 1998, 120, 8523-8524.   | 6.6  | 488       |
| 16 | Laser-Induced Release of Encapsulated Materials inside Living Cells. Angewandte Chemie - International Edition, 2006, 45, 4612-4617.   | 7.2  | 466       |
| 17 | Simple Peptide~Tuned Self~Assembly of Photosensitizers towards Anticancer Photodynamic Therapy. Angewandte Chemie - International Edition, 2016, 55, 3036-3039.                  | 7.2  | 453       |
| 18 | Urease Encapsulation in Nanoorganized Microshells. Nano Letters, 2001, 1, 125-128.   | 4.5  | 431       |

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|----|--|------|-----------|
| 19 | pH-Controlled Macromolecule Encapsulation in and Release from Polyelectrolyte Multilayer Nanocapsules. <i>Macromolecular Rapid Communications</i> , 2001, 22, 44-46.                                     | 2.0  | 424       |
| 20 | Directing Self-Assembly of Nanoparticles at Water/Oil Interfaces. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5639-5642.  | 7.2  | 418       |
| 21 | Protein Multilayer Formation on Colloids through a Stepwise Self-Assembly Technique. <i>Journal of the American Chemical Society</i> , 1999, 121, 6039-6046.   | 6.6  | 411       |
| 22 | Ordering in Lipid Monolayers Studied by Synchrotron X-Ray Diffraction and Fluorescence Microscopy. <i>Physical Review Letters</i> , 1987, 58, 2224-2227.   | 2.9  | 388       |
| 23 | Porous calcium carbonate microparticles as templates for encapsulation of bioactive compounds. <i>Journal of Materials Chemistry</i> , 2004, 14, 2073-2081.  | 6.7  | 387       |
| 24 | Studies on the Drug Release Properties of Polysaccharide Multilayers Encapsulated Ibuprofen Microparticles. <i>Langmuir</i> , 2001, 17, 5375-5380.   | 1.6  | 386       |
| 25 | Investigation of Electrostatic Interactions in Polyelectrolyte Multilayer Films: Å Binding of Anionic Fluorescent Probes to Layers Assembled onto Colloids. <i>Macromolecules</i> , 1999, 32, 2317-2328. | 2.2  | 379       |
| 26 | Smart Micro- and Nanocontainers for Storage, Transport, and Release. <i>Advanced Materials</i> , 2001, 13, 1324.   | 11.1 | 377       |
| 27 | Redox-controlled molecular permeability of composite-wall microcapsules. <i>Nature Materials</i> , 2006, 5, 724-729.   | 13.3 | 350       |
| 28 | Sustained Release Properties of Polyelectrolyte Multilayer Capsules. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2281-2284.  | 1.2  | 343       |
| 29 | Active Anticorrosion Coatings with Halloysite Nanocontainers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 958-964.   | 1.5  | 340       |
| 30 | Self-Repairing Coatings Containing Active Nanoreservoirs. <i>Small</i> , 2007, 3, 926-943.   | 5.2  | 336       |
| 31 | Adhesion and Mechanical Properties of PNIPAM Microgel Films and Their Potential Use as Switchable Cell Culture Substrates. <i>Advanced Functional Materials</i> , 2010, 20, 3235-3243.                   | 7.8  | 329       |
| 32 | Magnetic Core-Shell Particles: Preparation of Magnetite Multilayers on Polymer Latex Microspheres. <i>Advanced Materials</i> , 1999, 11, 950-953.  | 11.1 | 328       |
| 33 | Mesoporous Silica Nanoparticles for Active Corrosion Protection. <i>ACS Nano</i> , 2011, 5, 1939-1946.   | 7.3  | 315       |
| 34 | Preparation and Optical Properties of Colloidal Gold Monolayers. <i>Langmuir</i> , 1999, 15, 3256-3266.  | 1.6  | 311       |
| 35 | Electroluminescence of different colors from polycation/CdTe nanocrystal self-assembled films. <i>Journal of Applied Physics</i> , 2000, 87, 2297-2302.  | 1.1  | 310       |
| 36 | Successive Deposition of Alternate Layers of Polyelectrolytes and a Charged Virus. <i>Langmuir</i> , 1994, 10, 4232-4236.  | 1.6  | 307       |

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|----|--|------|-----------|
| 37 | Polyelectrolyte multilayer capsule permeability control. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 535-541.   | 2.3  | 305       |
| 38 | Self-Healing Anticorrosion Coatings Based on pH-Sensitive Polyelectrolyte/Inhibitor Sandwichlike Nanostructures. <i>Advanced Materials</i> , 2008, 20, 2789-2794.  | 11.1 | 300       |
| 39 | Production of Hollow Microspheres from Nanostructured Composite Particles. <i>Chemistry of Materials</i> , 1999, 11, 3309-3314.  | 3.2  | 291       |
| 40 | Recent progress in morphology control of supramolecular fullerene assemblies and its applications. <i>Chemical Society Reviews</i> , 2010, 39, 4021.   | 18.7 | 290       |
| 41 | Nano- and Microengineering: 3-D Colloidal Photonic Crystals Prepared from Sub-1/4 $\mu$ m-sized Polystyrene Latex Spheres Pre-Coated with Luminescent Polyelectrolyte/Nanocrystal Shells. <i>Advanced Materials</i> , 2000, 12, 333-337. | 11.1 | 288       |
| 42 | Ultrasonic Cavitation at Solid Surfaces. <i>Advanced Materials</i> , 2011, 23, 1922-1934.  | 11.1 | 287       |
| 43 | Shell-in-Shell Microcapsules: A Novel Tool for Integrated, Spatially Confined Enzymatic Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5605-5608.   | 7.2  | 283       |
| 44 | Precipitation polymerization for fabrication of complex core-shell hybrid particles and hollow structures. <i>Chemical Society Reviews</i> , 2013, 42, 3628.   | 18.7 | 271       |
| 45 | Magnetic Colloidosomes Derived from Nanoparticle Interfacial Self-Assembly. <i>Nano Letters</i> , 2005, 5, 949-952.  | 4.5  | 264       |
| 46 | Intelligent micro- and nanocapsules. <i>Progress in Polymer Science</i> , 2005, 30, 885-897.   | 11.8 | 262       |
| 47 | Layer-by-Layer Assembled Composites from Multiwall Carbon Nanotubes with Different Morphologies. <i>Nano Letters</i> , 2004, 4, 1889-1895.   | 4.5  | 255       |
| 48 | Smart Inorganic/Organic Nanocomposite Hollow Microcapsules. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4472-4475.  | 7.2  | 251       |
| 49 | Langmuir monolayers to study interactions at model membrane surfaces. <i>Advances in Colloid and Interface Science</i> , 2003, 100-102, 563-584.   | 7.0  | 246       |
| 50 | Prospects for plasmonic hot spots in single molecule SERS towards the chemical imaging of live cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21072-21093.  | 1.3  | 246       |
| 51 | A Thin-Film Electrochromic Device Based on a Polyoxometalate Cluster. <i>Advanced Materials</i> , 2002, 14, 225-228.   | 11.1 | 244       |
| 52 | Application of Inhibitor-Loaded Halloysite Nanotubes in Active Anti-Corrosive Coatings. <i>Advanced Functional Materials</i> , 2009, 19, 1720-1727.  | 7.8  | 243       |
| 53 | Fabrication of Micro Reaction Cages with Tailored Properties. <i>Journal of the American Chemical Society</i> , 2001, 123, 5431-5436.  | 6.6  | 242       |
| 54 | Thermal Behavior of Polyelectrolyte Multilayer Microcapsules. 1. The Effect of Odd and Even Layer Number. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18250-18259.   | 1.2  | 240       |

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|----|---|------|-----------|
| 55 | Lipid Coating on Polyelectrolyte Surface Modified Colloidal Particles and Polyelectrolyte Capsules. <i>Macromolecules</i> , 2000, 33, 4538-4544.  | 2.2  | 238       |
| 56 | Surface-Engineered Nanocontainers for Entrapment of Corrosion Inhibitors. <i>Advanced Functional Materials</i> , 2007, 17, 1451-1458.   | 7.8  | 236       |
| 57 | Influence of the Ionic Strength on the Polyelectrolyte Multilayers' Permeability. <i>Langmuir</i> , 2003, 19, 2444-2448.  | 1.6  | 232       |
| 58 | Fabrication of Superhydrophobic Surfaces from Binary Colloidal Assembly. <i>Langmuir</i> , 2005, 21, 9143-9148.   | 1.6  | 228       |
| 59 | Surface-Modified Mesoporous SiO <sub>2</sub> Containers for Corrosion Protection. <i>Advanced Functional Materials</i> , 2009, 19, 2373-2379.   | 7.8  | 227       |
| 60 | Hollow Polyelectrolyte Shells: Exclusion of Polymers and Donnan Equilibrium. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6434-6440.   | 1.2  | 220       |
| 61 | Membrane Filtration for Microencapsulation and Microcapsules Fabrication by Layer-by-Layer Polyelectrolyte Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 4037-4043.  | 1.8  | 220       |
| 62 | Phospholipid Monolayer Density Distribution Perpendicular to the Water Surface. A Synchrotron X-Ray Reflectivity Study. <i>Europhysics Letters</i> , 1987, 4, 697-703.  | 0.7  | 214       |
| 63 | Electroluminescence Studies on Self-Assembled Films of PPV and CdSe Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4096-4103.   | 1.2  | 214       |
| 64 | Rapid Fabrication of Binary Colloidal Crystals by Stepwise Spin-Coating. <i>Advanced Materials</i> , 2004, 16, 244-247.   | 11.1 | 212       |
| 65 | Sonochemical Synthesis of Highly Luminescent Zinc Oxide Nanoparticles Doped with Magnesium(II). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2727-2731.   | 7.2  | 209       |
| 66 | Self-Propelled Polymer Multilayer Janus Capsules for Effective Drug Delivery and Light-Triggered Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10476-10481.   | 4.0  | 208       |
| 67 | Carbonate microparticles for hollow polyelectrolyte capsules fabrication. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 224, 175-183.   | 2.3  | 203       |
| 68 | Stability and Mechanical Properties of Polyelectrolyte Capsules Obtained by Stepwise Assembly of Poly(styrenesulfonate sodium salt) and Poly(diallyldimethyl ammonium) Chloride onto Melamine Resin Particles. <i>Langmuir</i> , 2001, 17, 3491-3495. | 1.6  | 202       |
| 69 | Polyelectrolyte multilayer nanoreactors toward the synthesis of diverse nanostructured materials. <i>Progress in Polymer Science</i> , 2004, 29, 987-1019.  | 11.8 | 202       |
| 70 | Template-directed colloidal self-assembly – the route to “top-down” nanochemical engineering. <i>Journal of Materials Chemistry</i> , 2004, 14, 459-468.  | 6.7  | 202       |
| 71 | Encapsulation, release and applications of LbL polyelectrolyte multilayer capsules. <i>Chemical Communications</i> , 2011, 47, 12736.   | 2.2  | 202       |
| 72 | Preparation and Characterization of Ordered Nanoparticle and Polymer Composite Multilayers on Colloids. <i>Langmuir</i> , 1999, 15, 8276-8281.  | 1.6  | 200       |

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|----|---|------|-----------|
| 73 | Layer-by-Layer Engineering of Biocompatible, Decomposable Core-Shell Structures. <i>Biomacromolecules</i> , 2003, 4, 265-272.   | 2.6  | 200       |
| 74 | Influence of Polyelectrolyte Multilayer Coatings on Förster Resonance Energy Transfer between 6-Carboxyfluorescein and Rhodamine B-Labeled Particles in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2011-2016.                    | 1.2  | 198       |
| 75 | Manipulation of Aqueous Growth of CdTe Nanocrystals To Fabricate Colloidally Stable One-Dimensional Nanostructures. <i>Journal of the American Chemical Society</i> , 2006, 128, 10171-10180.   | 6.6  | 191       |
| 76 | Maghemite Nanoparticles Protectively Coated with Poly(ethylene imine) and Poly(ethylene Terephthalate) Overlayer. <i>Journal of Physical Chemistry B</i> , 2006, 10, 622-627.   | 1.6  | 190       |
| 77 | Silica/Polymer Double-Walled Hybrid Nanotubes: Synthesis and Application as Stimuli-Responsive Nanocontainers in Self-Healing Coatings. <i>ACS Nano</i> , 2013, 7, 2470-2478.   | 7.3  | 190       |
| 78 | Langmuir monolayers as models to study processes at membrane surfaces. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 197-213.   | 7.0  | 190       |
| 79 | Near-IR Remote Release from Assemblies of Liposomes and Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1807-1809.  | 7.2  | 189       |
| 80 | Understanding the self-assembly of charged nanoparticles at the water/oil interface. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3828-3835.   | 1.3  | 187       |
| 81 | Solvent-Free Luminescent Organic Liquids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3391-3395.   | 7.2  | 187       |
| 82 | Multifunctional cargo systems for biotechnology. <i>Trends in Biotechnology</i> , 2007, 25, 93-98.  | 4.9  | 186       |
| 83 | Nanocontainer-Based Anticorrosive Coatings: Effect of the Container Size on the Self-Healing Performance. <i>Advanced Functional Materials</i> , 2013, 23, 3799-3812.   | 7.8  | 185       |
| 84 | Ultrasonically Induced Opening of Polyelectrolyte Microcontainers. <i>Langmuir</i> , 2006, 22, 7400-7404.   | 1.6  | 184       |
| 85 | Metallo-supramolecular Thin Polyelectrolyte Films. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2891-2893.  | 7.2  | 182       |
| 86 | The water/oil interface: the emerging horizon for self-assembly of nanoparticles. <i>Soft Matter</i> , 2005, 1, 412.  | 1.2  | 180       |
| 87 | Polymeric microcapsules with light responsive properties for encapsulation and release. <i>Advances in Colloid and Interface Science</i> , 2010, 158, 2-14.   | 7.0  | 178       |
| 88 | Assembly of Alternated Multivalent Ion/Polyelectrolyte Layers on Colloidal Particles. Stability of the Multilayers and Encapsulation of Macromolecules into Polyelectrolyte Capsules. <i>Journal of Colloid and Interface Science</i> , 2000, 230, 272-280. | 5.0  | 177       |
| 89 | Microcontact-Printing-Assisted Access of Graphitic Carbon Nitride Films with Favorable Textures toward Photoelectrochemical Application. <i>Advanced Materials</i> , 2015, 27, 712-718.   | 11.1 | 177       |
| 90 | Self-Assembly of Hexagonal Peptide Microtubes and Their Optical Waveguiding. <i>Advanced Materials</i> , 2011, 23, 2796-2801.   | 11.1 | 173       |

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|-----|---|------|-----------|
| 91  | Spontaneous Deposition of Water-Soluble Substances into Microcapsules: Phenomenon, Mechanism, and Application. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3789-3793.                            | 7.2  | 169       |
| 92  | Fabrication of Multicolor-Encoded Microspheres by Tagging Semiconductor Nanocrystals to Hydrogel Spheres. <i>Advanced Materials</i> , 2005, 17, 267-270.  | 11.1 | 169       |
| 93  | Incorporating Fluorescent CdTe Nanocrystals into a Hydrogel via Hydrogen Bonding: Toward Fluorescent Microspheres with Temperature-Responsive Properties. <i>Chemistry of Materials</i> , 2005, 17, 2648-2653.    | 3.2  | 169       |
| 94  | The Decomposition Process of Melamine Formaldehyde Cores: The Key Step in the Fabrication of Ultrathin Polyelectrolyte Multilayer Capsules. <i>Macromolecular Materials and Engineering</i> , 2001, 286, 355-361. | 1.7  | 168       |
| 95  | Hollow Polymer Shells from Biological Templates: Fabrication and Potential Applications. <i>Chemistry - A European Journal</i> , 2002, 8, 5481-5485.  | 1.7  | 167       |
| 96  | Nonvolatile liquid anthracenes for facile full-colour luminescence tuning at single blue-light excitation. <i>Nature Communications</i> , 2013, 4, 1969.  | 5.8  | 167       |
| 97  | Phospholipid monolayers between fluid and solid states. <i>Biophysical Journal</i> , 1987, 52, 381-390.   | 0.2  | 166       |
| 98  | Entrapment of $\alpha$ -Chymotrypsin into Hollow Polyelectrolyte Microcapsules. <i>Macromolecular Bioscience</i> , 2001, 1, 209-214.  | 2.1  | 165       |
| 99  | Nanocarbon Superhydrophobic Surfaces created from Fullerene-Based Hierarchical Supramolecular Assemblies. <i>Advanced Materials</i> , 2008, 20, 443-446.  | 11.1 | 165       |
| 100 | Controlled Permeability of Polyelectrolyte Capsules via Defined Annealing. <i>Chemistry of Materials</i> , 2002, 14, 4059-4062.   | 3.2  | 164       |
| 101 | Peptide-Induced Hierarchical Long-Range Order and Photocatalytic Activity of Porphyrin Assemblies. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 500-505.  | 7.2  | 164       |
| 102 | Polyelectrolyte Complexes and Layer-by-Layer Capsules from Chitosan/Chitosan Sulfate. <i>Biomacromolecules</i> , 2002, 3, 579-590.  | 2.6  | 163       |
| 103 | Multifunctional Porous Microspheres Based on Peptide-Porphyrin Hierarchical Co-Assembly. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2366-2370.  | 7.2  | 161       |
| 104 | Swelling and Shrinking of Polyelectrolyte Microcapsules in Response to Changes in Temperature and Ionic Strength. <i>Chemistry - A European Journal</i> , 2003, 9, 915-920.                                       | 1.7  | 160       |
| 105 | Core-Shell Structures Formed by the Solvent-Controlled Precipitation of Luminescent CdTe Nanocrystals on Latex Spheres. <i>Advanced Materials</i> , 2001, 13, 1684-1687.  | 11.1 | 159       |
| 106 | Biofunctional Polyelectrolyte Multilayers and Microcapsules: Control of Non-Specific and Bio-Specific Protein Adsorption. <i>Advanced Functional Materials</i> , 2005, 15, 357-366.                               | 7.8  | 159       |
| 107 | Influence of ether linkages on the structure of double-chain phospholipid monolayers. <i>Chemistry and Physics of Lipids</i> , 1995, 76, 145-157.   | 1.5  | 154       |
| 108 | Synthesis and Structure of Colloidal Bimetallic Nanocrystals: The Non-Alloying System Ag/Co. <i>Nano Letters</i> , 2002, 2, 621-624.  | 4.5  | 154       |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 109 | New Method for Fabrication of Loaded Micro- and Nanocontainers: Emulsion Encapsulation by Polyelectrolyte Layer-by-Layer Deposition on the Liquid Core. <i>Langmuir</i> , 2008, 24, 999-1004.                                 | 1.6  | 154       |
| 110 | Thermal Behavior of Polyelectrolyte Multilayer Microcapsules: Insight into Molecular Mechanisms for the PDADMAC/PSS System. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24002-24010.                                  | 1.2  | 153       |
| 111 | Mechanics of artificial microcapsules. <i>New Journal of Physics</i> , 2004, 6, 18-18.  | 1.2  | 151       |
| 112 | Antibacterial activity of thin-film photocatalysts based on metal-modified TiO <sub>2</sub> and TiO <sub>2</sub> :In <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 94-99.  | 10.8 | 151       |
| 113 | Adsorption and Desorption Behavior of an Anionic Pyrene Chromophore in Sequentially Deposited Polyelectrolyte-Dye Thin Films. <i>Journal of the American Chemical Society</i> , 2000, 122, 5841-5848.                         | 6.6  | 150       |
| 114 | Proton Concentration Profile in Ultrathin Polyelectrolyte Films. <i>Langmuir</i> , 1995, 11, 3554-3559.   | 1.6  | 149       |
| 115 | Self-Assembled Injectable Peptide Hydrogels Capable of Triggering Antitumor Immune Response. <i>Biomacromolecules</i> , 2017, 18, 3514-3523.  | 2.6  | 148       |
| 116 | Electrostatic interactions in phospholipid membranes I: Influence of monovalent ions. <i>Colloid and Polymer Science</i> , 1986, 264, 46-55.  | 1.0  | 147       |
| 117 | Polyoxometalate-Based Electro- and Photochromic Dual-Mode Devices. <i>Langmuir</i> , 2006, 22, 1949-1951.   | 1.6  | 147       |
| 118 | Phases of phosphatidyl ethanolamine monolayers studied by synchrotron x-ray scattering. <i>Biophysical Journal</i> , 1991, 60, 1457-1476.   | 0.2  | 146       |
| 119 | A Realistic Diffusion Model for Ultrathin Polyelectrolyte Films. <i>Macromolecules</i> , 1996, 29, 6901-6906.   | 2.2  | 146       |
| 120 | Biological cells as templates for hollow microcapsules. <i>Journal of Microencapsulation</i> , 2001, 18, 385-395.   | 1.2  | 146       |
| 121 | Mimicking Primitive Photobacteria: Sustainable Hydrogen Evolution Based on Peptide-Porphyrin Co-Assemblies with a Self-Mineralized Reaction Center. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12503-12507. | 7.2  | 145       |
| 122 | Two-Stage pH Response of Poly(4-vinylpyridine) Grafted Gold Nanoparticles. <i>Macromolecules</i> , 2008, 41, 7254-7256.   | 2.2  | 144       |
| 123 | Laser-Controllable Coatings for Corrosion Protection. <i>ACS Nano</i> , 2009, 3, 1753-1760.   | 7.3  | 144       |
| 124 | Nonlinear Hairy Layer Theory of Electrophoretic Fingerprinting Applied to Consecutive Layer by Layer Polyelectrolyte Adsorption onto Charged Polystyrene Latex Particles. <i>Langmuir</i> , 1997, 13, 5294-5305.              | 1.6  | 143       |
| 125 | Scanning Force Microscopy Investigation of Polyelectrolyte Nano- and Microcapsule Wall Texture. <i>Langmuir</i> , 2000, 16, 4059-4063.  | 1.6  | 143       |
| 126 | Direct characterization of monolayers at the air-water interface. <i>Thin Solid Films</i> , 1988, 159, 1-15.  | 0.8  | 140       |



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|-----|--|-----|-----------|
| 127 | A lithography-free method for directed colloidal crystal assembly based on wrinkling. <i>Soft Matter</i> , 2007, 3, 1530.  | 1.2 | 140       |
| 128 | Controlled Release of DNA from Self-Degrading Microcapsules. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1894-1899.   | 2.0 | 140       |
| 129 | Fractal Growth of Crystalline Phospholipid Domains in Monomolecular Layers. <i>Physical Review Letters</i> , 1986, 56, 2633-2636.  | 2.9 | 137       |
| 130 | Encapsulation of proteins by layer-by-layer adsorption of polyelectrolytes onto protein aggregates: Factors regulating the protein release. <i>Biotechnology and Bioengineering</i> , 2001, 76, 207-213.   | 1.7 | 137       |
| 131 | Nanoplasmonics for Dual-Molecule Release through Nanopores in the Membrane of Red Blood Cells. <i>ACS Nano</i> , 2012, 6, 4169-4180.   | 7.3 | 136       |
| 132 | Flower-Shaped Supramolecular Assemblies: Hierarchical Organization of a Fullerene Bearing Long Aliphatic Chains. <i>Small</i> , 2007, 3, 2019-2023.  | 5.2 | 134       |
| 133 | The interaction of antimicrobial peptides with membranes. <i>Advances in Colloid and Interface Science</i> , 2017, 247, 521-532.   | 7.0 | 134       |
| 134 | Hydrogen-bonded multilayers of self-assembling silanes: structure elucidation by combined Fourier transform infra-red spectroscopy and X-ray scattering techniques. <i>Supramolecular Science</i> , 1995, 2, 9-24.                               | 0.7 | 131       |
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