Pierre Schaaf

List of Publications by Year
in descending order

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346 papers	21,543 citations	8755 75 h-index	12946 131 g-index
355 all docs	355 docs citations	355 times ranked	12778 citing authors

#	Article	IF	Citations
1	Molecular basis for the explanation of the exponential growth of polyelectrolyte multilayers. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12531-12535.	7.1	826
2	Buildup Mechanism for Poly(l-lysine)/Hyaluronic Acid Films onto a Solid Surface. Langmuir, 2001, 17, 7414-7424.	3.5	647
3	In Situ Determination of the Structural Properties of Initially Deposited Polyelectrolyte Multilayers. Langmuir, 2000, 16, 1249-1255.	3.5	569
4	Layer by Layer Buildup of Polysaccharide Films: Physical Chemistry and Cellular Adhesion Aspects. Langmuir, 2004, 20, 448-458.	3.5	482
5	Comparison of the Structure of Polyelectrolyte Multilayer Films Exhibiting a Linear and an Exponential Growth Regime: An in Situ Atomic Force Microscopy Study. Macromolecules, 2002, 35, 4458-4465.	4.8	478
6	Dipping versus Spraying:Â Exploring the Deposition Conditions for Speeding Up Layer-by-Layer Assembly. Langmuir, 2005, 21, 7558-7567.	3.5	412
7	Improvement of Stability and Cell Adhesion Properties of Polyelectrolyte Multilayer Films by Chemical Cross-Linking. Biomacromolecules, 2004, 5, 284-294.	5.4	408
8	Surface exclusion effects in adsorption processes. Journal of Chemical Physics, 1989, 91, 4401-4409.	3.0	330
9	Characterization of Dopamineâ^'Melanin Growth on Silicon Oxide. Journal of Physical Chemistry C, 2009, 113, 8234-8242.	3.1	322
10	Polyelectrolyte Multilayers with a Tunable Young's Modulus:â€‰ Influence of Film Stiffness on Cell Adhesion. Langmuir, 2006, 22, 1193-1200.	3.5	297
11	Electrochemical nanoarchitectonics and layer-by-layer assembly: From basics to future. Nano Today, 2015, 10, 138-167.	11.9	284
12	From Exponential to Linear Growth in Polyelectrolyte Multilayers. Langmuir, 2006, 22, 4376-4383.	3.5	273
13	Modeling the Buildup of Polyelectrolyte Multilayer Films Having Exponential Growthâœ—. Journal of Physical Chemistry B, 2004, 108, 635-648.	2.6	261
14	Bioactive Coatings Based on a Polyelectrolyte Multilayer Architecture Functionalized by Embedded Proteins. Advanced Materials, 2003, 15, 692-695.	21.0	232
15	Polyelectrolyte multilayer films with pegylated polypeptides as a new type of anti-microbial protection for biomaterials. Biomaterials, 2004, 25, 2003-2011.	11.4	229
16	Multiple and time-scheduled in situ DNA delivery mediated by beta-cyclodextrin embedded in a polyelectrolyte multilayer. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8618-8621.	7.1	227
17	Cell Interactions with Polyelectrolyte Multilayer Films. Biomacromolecules, 2002, 3, 1170-1178.	5.4	226
18	Dynamic Aspects of Films Prepared by a Sequential Deposition of Species: Perspectives for Smart and Responsive Materials. Advanced Materials, 2011, 23, 1191-1221.	21.0	213

#	Article	IF	Citations
19	Peptide Hormone Covalently Bound to Polyelectrolytes and Embedded into Multilayer Architectures Conserving Full Biological Activity. Biomacromolecules, 2001, 2, 800-805.	5.4	209
20	Natural polyelectrolyte films based on layer-by layer deposition of collagen and hyaluronic acid. Biomaterials, 2005, 26, 3353-3361.	11.4	202
21	Protein Adsorption onto Auto-Assembled Polyelectrolyte Films. Langmuir, 2001, 17, 878-882.	3.5	199
22	Influence of the Polyelectrolyte Molecular Weight on Exponentially Growing Multilayer Films in the Linear Regime. Langmuir, 2007, 23, 1898-1904.	3.5	198
23	Kinetics of Random Sequential Adsorption. Physical Review Letters, 1989, 62, 175-178.	7.8	193
24	Viability, adhesion, and bone phenotype of osteoblast-like cells on polyelectrolyte multilayer films. Journal of Biomedical Materials Research Part B, 2002, 60, 657-667.	3.1	188
25	Multilayer Polyelectrolyte Films Functionalized by Insertion of Defensin: a New Approach to Protection of Implants from Bacterial Colonization. Antimicrobial Agents and Chemotherapy, 2004, 48, 3662-3669.	3.2	184
26	Protein Interactions with Polyelectrolyte Multilayers:Â Interactions between Human Serum Albumin and Polystyrene Sulfonate/Polyallylamine Multilayers. Biomacromolecules, 2000, 1, 674-687.	5.4	182
27	Buildup of Exponentially Growing Multilayer Polypeptide Films with Internal Secondary Structure. Langmuir, 2003, 19, 440-445.	3.5	181
28	Relationship between the Growth Regime of Polyelectrolyte Multilayers and the Polyanion/Polycation Complexation Enthalpy. Journal of Physical Chemistry B, 2006, 110, 19443-19449.	2.6	180
29	Stabilizing Effects of Various Polyelectrolyte Multilayer Films on the Structure of Adsorbed/Embedded Fibrinogen Molecules:Â An ATRâ^'FTIR Studyâ€. Journal of Physical Chemistry B, 2001, 105, 11906-11916.	2.6	177
30	Controlled Degradability of Polysaccharide Multilayer Films In Vitro and In Vivo. Advanced Functional Materials, 2005, 15, 1771-1780.	14.9	170
31	Primary Cell Adhesion on RGD-Functionalized and Covalently Crosslinked Thin Polyelectrolyte Multilayer Films. Advanced Functional Materials, 2005, 15, 83-94.	14.9	164
32	Hyaluronic Acid and Its Derivatives in Coating and Delivery Systems: Applications in Tissue Engineering, Regenerative Medicine and Immunomodulation. Advanced Healthcare Materials, 2016, 5, 2841-2855.	7.6	162
33	Saloplastics: Processing Compact Polyelectrolyte Complexes. Advanced Materials, 2015, 27, 2420-2432.	21.0	154
34	pH dependent growth of poly(L-lysine)/poly(L-glutamic) acid multilayer films and their cell adhesion properties. Surface Science, 2004, 570, 13-29.	1.9	152
35	Controlling the Growth Regime of Polyelectrolyte Multilayer Films:Â Changing from Exponential to Linear Growth by Adjusting the Composition of Polyelectrolyte Mixtures. Langmuir, 2004, 20, 1980-1985.	3.5	142
36	Determination of structural parameters characterizing thin films by optical methods: A comparison between scanning angle reflectometry and optical waveguide lightmode spectroscopy. Journal of Chemical Physics, 2001, 115, 1086-1094.	3.0	132

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37	Multifunctional Polyelectrolyte Multilayer Films:Â Combining Mechanical Resistance, Biodegradability, and Bioactivity. Biomacromolecules, 2007, 8, 139-145.	5.4	127
38	Secondary Structure of Proteins Adsorbed onto or Embedded in Polyelectrolyte Multilayers. Biomacromolecules, 2002, 3, 1135-1143.	5.4	126
39	Complexation Mechanism of Bovine Serum Albumin and Poly(allylamine hydrochloride). Journal of Physical Chemistry B, 2002, 106, 2357-2364.	2.6	126
40	Direct Evidence for Vertical Diffusion and Exchange Processes of Polyanions and Polycations in Polyelectrolyte Multilayer Films. Macromolecules, 2004, 37, 1159-1162.	4.8	125
41	Sprayâ€Assisted Polyelectrolyte Multilayer Buildup: from Stepâ€byâ€Step to Singleâ€Step Polyelectrolyte Film Constructions. Advanced Materials, 2012, 24, 1001-1016.	21.0	125
42	Degradability of Polysaccharides Multilayer Films in the Oral Environment:Â an in Vitro and in Vivo Study. Biomacromolecules, 2005, 6, 726-733.	5.4	123
43	Build-up of Polypeptide Multilayer Coatings with Anti-Inflammatory Properties Based on the Embedding of Piroxicamâ€“Cyclodextrin Complexes. Advanced Functional Materials, 2004, 14, 174-182.	14.9	122
44	Mechanotransductive surfaces for reversible biocatalysis activation. Nature Materials, 2009, 8, 731-735.	27.5	122
45	Polyelectrolyte Multilayers: A Versatile Tool for Preparing Antimicrobial Coatings. Langmuir, 2015, 31, 12856-12872.	3.5	122
46	Multicompartment Films Made of Alternate Polyelectrolyte Multilayers of Exponential and Linear Growth. Langmuir, 2004, 20, 7298-7302.	3.5	119
47	Antifungal coating by biofunctionalized polyelectrolyte multilayered films. Biomaterials, 2005, 26, 6704-6712.	11.4	118
48	Complexation of phosphocholine liposomes with polylysine. Stabilization by surface coverage versus aggregation. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 280-290.	2.6	116
49	Composite multilayered biocompatible polyelectrolyte films with intact liposomes: stability and temperature triggered dye release. Soft Matter, 2008, 4, 122-130.	2.7	116
50	On the Benefits of Rubbing Salt in the Cut: Selfâ€Healing of Saloplastic PAA/PAH Compact Polyelectrolyte Complexes. Advanced Materials, 2014, 26, 2547-2551.	21.0	113
51	Polyelectrolyte multilayers functionalized by a synthetic analogue of an anti-inflammatory peptide, Î±-MSH, for coating a tracheal prosthesis. Biomaterials, 2005, 26, 2621-2630.	11.4	110
52	Liquid-liquid phase separation and crystallization in binary polymer systems. Polymer, 1987, 28, 193-200.	3.8	108
53	Layer by Layer Self-Assembled Polyelectrolyte Multilayers with Embedded Phospholipid Vesicles. Langmuir, 2004, 20, 4835-4839.	3.5	108
54	Control of drug accessibility on functional polyelectrolyte multilayer films. Biomaterials, 2006, 27, 4149-4156.	11.4	107

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55	Influence of Polyelectrolyte Multilayer Films on Calcium Phosphate Nucleation. Journal of the American Chemical Society, 2000, 122, 8998-9005.	13.7	104
56	Human Serum Albumin Self-Assembly on Weak Polyelectrolyte Multilayer Films Structurally Modified by pH Changes. Langmuir, 2004, 20, 5575-5582.	3.5	100
57	Selfâ€Defensive Biomaterial Coating Against Bacteria and Yeasts: Polysaccharide Multilayer Film with Embedded Antimicrobial Peptide. Advanced Functional Materials, 2013, 23, 4801-4809.	14.9	100
58	Irreversible adsorption of colloidal particles on solid substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 165, 255-285.	4.7	98
59	Unexpected asymptotic behavior in random sequential adsorption of nonspherical particles. Physical Review A, 1989, 40, 4808-4811.	2.5	94
60	Efficient Gas and Water Vapor Barrier Properties of Thin Poly(lactic acid) Packaging Films: Functionalization with Moisture Resistant Nafion and Clay Multilayers. Chemistry of Materials, 2014, 26, 5459-5466.	6.7	94
61	Random sequential addition: A distribution function approach. Journal of Statistical Physics, 1991, 63, 167-202.	1.2	93
62	Layer by Layer Self-Assembled Polyelectrolyte Multilayers with Embedded Phospholipid Vesicles Obtained by Spraying: Integrity of the Vesicles. Langmuir, 2005, 21, 7854-7859.	3.5	92
63	Embedded Silver Ions-Containing Liposomes in Polyelectrolyte Multilayers: Cargos Films for Antibacterial Agents. Langmuir, 2008, 24, 10209-10215.	3.5	92
64	Protein adsorption onto auto-assembled polyelectrolyte films. New Biotechnology, 2002, 19, 273-280.	2.7	91
65	Ultrathin Coatings and (Poly(glutamic acid)/Polyallylamine) Films Deposited by Continuous and Simultaneous Spraying. Langmuir, 2005, 21, 800-802.	3.5	90
66	Bone Formation Mediated by Synergy-Acting Growth Factors Embedded in a Polyelectrolyte Multilayer Film. Advanced Materials, 2007, 19, 693-697.	21.0	89
67	Reflectometry as a technique to study the adsorption of human fibrinogen at the silica/solution interface. Langmuir, 1987, 3, 1131-1135.	3.5	88
68	Effect of crosslinking on the elasticity of polyelectrolyte multilayer films measured by colloidal probe AFM. Microscopy Research and Technique, 2006, 69, 84-92.	2.2	88
69	Generalized random sequential adsorption. Journal of Chemical Physics, 1990, 93, 8352-8360.	3.0	86
70	A molecular theory of the homogeneous nucleation rate. I. Formulation and fundamental issues. Journal of Chemical Physics, 1999, 110, 6421-6437.	3.0	85
71	Endothelial cellâ€”interactions with polyelectrolyte multilayer films. Biomaterials, 2005, 26, 4568-4575.	11.4	83
72	Influence of bulk diffusion on the adsorption of hard spheres on a flat surface. Journal of Chemical Physics, 1992, 97, 3813-3820.	3.0	81

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73	Secondary Structure of Polypeptide Multilayer Films:Â An Example of Locally Ordered Polyelectrolyte Multilayers. Langmuir, 2002, 18, 4523-4525.	3.5	80
74	Multilayered Polypeptide Films: Secondary Structures and Effect of Various Stresses. Langmuir, 2003, 19, 9873-9882.	3.5	79
75	Control of Monocyte Morphology on and Response to Model Surfaces for Implants Equipped with Anti-Inflammatory Agent. Advanced Materials, 2004, 16, 1507-1511.	21.0	79
76	Layer-by-Layer Self-Assembled Polyelectrolyte Multilayers with Embedded Liposomes: Immobilized Submicronic Reactors for Mineralization. Langmuir, 2006, 22, 2358-2364.	3.5	78
77	Short-Time Tuning of the Biological Activity of Functionalized Polyelectrolyte Multilayers. Advanced Functional Materials, 2005, 15, 648-654.	14.9	76
78	Effective embedding of liposomes into polyelectrolyte multilayered films: the relative importance of lipid-polyelectrolyte and interpolyelectrolyte interactions. Soft Matter, 2009, 5, 1394.	2.7	76
79	Selective and uncoupled role of substrate elasticity in the regulation of replication and transcription in epithelial cells. Journal of Cell Science, 2010, 123, 29-39.	2.0	75
80	Random sequential adsorption of mixtures. Physical Review A, 1989, 40, 422-427.	2.5	74
81	Random sequential addition of hard spheres. Molecular Physics, 1991, 72, 1397-1406.	1.7	73
82	Polymer Multilayer Films Obtained by Electrochemically Catalyzed Click Chemistry. Langmuir, 2010, 26, 2816-2824.	3.5	73
83	Sprayâ€On Organic/Inorganic Films: A General Method for the Formation of Functional Nanoâ€to Microscale Coatings. Angewandte Chemie - International Edition, 2010, 49, 10110-10113.	13.8	73
84	Adsorption/desorption of human serum albumin on hydroxyapatite: a critical analysis of the Langmuir model.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 5557-5561.	7.1	72
85	A molecular theory of the homogeneous nucleation rate. II. Application to argon vapor. Journal of Chemical Physics, 1999, 110, 6438-6450.	3.0	72
86	Multivalent Ion/Polyelectrolyte Exchange Processes in Exponentially Growing Multilayers. Langmuir, 2005, 21, 3664-3669.	3.5	72
87	Dynamics of Poly(<scp>l</scp>-lysine) in Hyaluronic Acid/Poly(<scp>l</scp>-lysine) Multilayer Films Studied by Fluorescence Recovery after Pattern Photobleaching. Langmuir, 2008, 24, 7842-7847.	3.5	72
88	Effect of the Supporting Electrolyte Anion on the Thickness of PSS/PAH Multilayer Films and on Their Permeability to an Electroactive Probe. Langmuir, 2009, 25, 2282-2289.	3.5	72
89	Bioactive coatings based on polyelectrolyte multilayer architectures functionalized by embedded proteins, peptides or drugs. New Biotechnology, 2007, 24, 33-41.	2.7	70
90	Multilayers Built from Two Component Polyanions and Single Component Polycation Solutions: A Way To Engineer Films with Desired Secondary Structure. Journal of Physical Chemistry B, 2003, 107, 12734-12739.	2.6	69

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91	Collagen-Based Fibrillar Multilayer Films Cross-Linked by a Natural Agent. Biomacromolecules, 2012, 13, 2128-2135.	5.4	69
92	Polyelectrolyte Multilayers and Degradable Polymer Layers as Multicompartment Films. Langmuir, 2005, 21, 12372-12377.	3.5	68
93	From Random Sequential Adsorption to Ballistic Deposition: A General View of Irreversible Deposition Processes. Journal of Physical Chemistry B, 2000, 104, 2204-2214.	2.6	66
94	Nucleation Kinetics of Calcium Phosphates on Polyelectrolyte Multilayers Displaying Internal Secondary Structure. Crystal Growth and Design, 2006, 6, 327-334.	3.0	66
95	Irreversible adsorption/deposition kinetics: A generalized approach. Journal of Chemical Physics, 1999, 110, 3118-3128.	3.0	65
96	Effect of functionalization of multilayered polyelectrolyte films on motoneuron growth. Biomaterials, 2005, 26, 545-554.	11.4	65
97	Hole formation induced by ionic strength increase in exponentially growing multilayer films. Soft Matter, 2009, 5, 2269.	2.7	65
98	Electrotriggered Confined Self-assembly of Metalâ€“Polyphenol Nanocoatings Using a Morphogenic Approach. Chemistry of Materials, 2017, 29, 9668-9679.	6.7	65
99	Effect of hydrodynamic interactions on the distribution of adhering Brownian particles. Physical Review Letters, 1993, 70, 623-626.	7.8	64
100	Polyelectrolyte Multilayer Films as Substrates for Photoreceptor Cells. Biomacromolecules, 2006, 7, 86-94.	5.4	64
101	Use of dopamine polymerisation to produce free-standing membranes from (PLL-HA)n exponentially growing multilayer films. Soft Matter, 2008, 4, 1621.	2.7	62
102	Direct observation of the anchoring process during the adsorption of fibrinogen on a solid surface by force-spectroscopy mode atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6705-6710.	7.1	61
103	Interactions between Multivalent Ions and Exponentially Growing Multilayers: Dissolution and Exchange Processes. Langmuir, 2005, 21, 8526-8531.	3.5	61
104	Unbinding process of adsorbed proteins under external stress studied by atomic force microscopy spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 10802-10807.	7.1	60
105	Swelling and Contraction of Ferrocyanide-Containing Polyelectrolyte Multilayers upon Application of an Electric Potential. Langmuir, 2008, 24, 13668-13676.	3.5	60
106	Compact Saloplastic Poly(Acrylic Acid)/Poly(Allylamine) Complexes: Kinetic Control Over Composition, Microstructure, and Mechanical Properties. Advanced Functional Materials, 2013, 23, 673-682.	14.9	60
107	Surfaceâ€Assisted Selfâ€Assembly Strategies Leading to Supramolecular Hydrogels. Angewandte Chemie - International Edition, 2018, 57, 1448-1456.	13.8	59
108	Statistical properties of surfaces covered by large spheres. Journal of Chemical Physics, 1993, 99, 7198-7208.	3.0	58

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109	Stiffening of Soft Polyelectrolyte Architectures by Multilayer Capping Evidenced by Viscoelastic Analysis of AFM Indentation Measurements. Journal of Physical Chemistry C, 2007, 111, 8299-8306.	3.1	58
110	Dynamic Aspects of Protein Adsorption onto Titanium Surfaces:â€‰ Mechanism of Desorption into Buffer and Release in the Presence of Proteins in the Bulk. Langmuir, 1996, 12, 1614-1621.	3.5	57
111	Giant Liposome Microreactors for Controlled Production of Calcium Phosphate Crystals. Langmuir, 2004, 20, 6127-6133.	3.5	57
112	Antibacterial Peptide-Based Gel for Prevention of Medical Implanted-Device Infection. PLoS ONE, 2015, 10, e0145143.	2.5	57
113	Small Vessel Replacement by Human Umbilical Arteries With Polyelectrolyte Film-Treated Arteries. Journal of the American College of Cardiology, 2008, 52, 1589-1597.	2.8	56
114	Asymptotic behavior of particle deposition. Physical Review Letters, 1991, 66, 1603-1605.	7.8	55
115	Properties of jamming configurations built up by the adsorption of Brownian particles onto solid surfaces. Physical Review A, 1991, 44, 6926-6928.	2.5	55
116	Exchange Kinetics for a Heterogeneous Protein System on a Solid Surface. Langmuir, 1995, 11, 3145-3152.	3.5	55
117	Layer-by-Layer Films from Hyaluronan and Amine-Modified Hyaluronan. Langmuir, 2007, 23, 2655-2662.	3.5	55
118	Measurement of film thickness up to several hundreds of nanometers using optical waveguide lightmode spectroscopy. Biosensors and Bioelectronics, 2004, 20, 553-561.	10.1	54
119	Electrochemically Triggered Assembly of Films: A Oneâ€Pot Morphogenâ€Driven Buildup. Angewandte Chemie - International Edition, 2011, 50, 4374-4377.	13.8	54
120	Mechanical Properties of Cross-Linked Hyaluronic Acid/Poly-(l-lysine) Multilayer Films. Macromolecules, 2004, 37, 10195-10198.	4.8	53
121	Imaging Cell Interactions With Native and Crosslinked Polyelectrolyte Multilayers. Cell Biochemistry and Biophysics, 2006, 44, 273-286.	1.8	53
122	Bioactive Seed Layer for Surfaceâ€Confined Selfâ€Assembly of Peptides. Angewandte Chemie - International Edition, 2015, 54, 10198-10201.	13.8	53
123	Mechanically Responding Nanovalves Based on Polyelectrolyte Multilayers. Nano Letters, 2007, 7, 657-662.	9.1	52
124	Harnessing the Multifunctionality in Nature: A Bioactive Agent Release System with Selfâ€Antimicrobial and Immunomodulatory Properties. Advanced Healthcare Materials, 2015, 4, 2026-2036.	7.6	52
125	Poly(styrenesulfonate)/Poly(allylamine) Multilayers:Â A Route To Favor Endothelial Cell Growth on Expanded Poly(tetrafluoroethylene) Vascular Grafts. Biomacromolecules, 2007, 8, 2156-2160.	5.4	51
126	Strategies for covalently reticulated polymer multilayers. Soft Matter, 2012, 8, 9738.	2.7	50

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127	Nanocomposite Silica/Polyamine Films Prepared by a Reactive Layer-by-Layer Deposition. Langmuir, 2007, 23, 3706-3711.	3.5	49
128	Micro-stratified architectures based on successive stacking of alginate gel layers and poly(l-lysine)â€“hyaluronic acid multilayer films aimed at tissue engineering. Soft Matter, 2008, 4, 1422.	2.7	49
129	Polyplex-embedding in polyelectrolyte multilayers for gene delivery. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 419-422.	2.6	48
130	Review of Electrochemically Triggered Macromolecular Film Buildup Processes and Their Biomedical Applications. ACS Applied Materials & Interfaces, 2017, 9, 28117-28138.	8.0	48
131	Lateral Mobility of Proteins Adsorbed on or Embedded in Polyelectrolyte Multilayers. Langmuir, 2001, 17, 6248-6253.	3.5	47
132	Reâ€endothelialization of Human Umbilical Arteries Treated with Polyelectrolyte Multilayers: A Tool for Damaged Vessel Replacement. Advanced Functional Materials, 2007, 17, 2667-2673.	14.9	47
133	Application of fluorescence recovery after photobleaching to diffusion of a polyelectrolyte in a multilayer film. Microscopy Research and Technique, 2005, 66, 43-57.	2.2	46
134	Dynamical Behavior of Human Serum Albumin Adsorbed on or Embedded in Polyelectrolyte Multilayers. Journal of Physical Chemistry B, 2002, 106, 6049-6055.	2.6	44
135	Polyelectrolyte multilayer films modulate cytoskeletal organization in chondrosarcoma cells. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 712-731.	3.5	44
136	Polyelectrolyte Multilayers Capped with Polyelectrolytes Bearing Phosphorylcholine and Triethylene Glycol Groups: Parameters Influencing Antifouling Properties. Langmuir, 2009, 25, 3610-3617.	3.5	44
137	Turbidity diagrams of polyanion/polycation complexes in solution as a potential tool to predict the occurrence of polyelectrolyte multilayer deposition. Journal of Colloid and Interface Science, 2010, 346, 163-171.	9.4	44
138	Soft-Mechanochemistry: Mechanochemistry Inspired by Nature. Langmuir, 2016, 32, 7265-7276.	3.5	44
139	Structural changes within an adsorbed fibrinogen layer during the adsorption process: A study by scanning angle reflectometry. Colloids and Surfaces, 1988, 31, 89-103.	0.9	43
140	Statistical properties of surfaces covered by deposited particles. Journal of Chemical Physics, 1995, 103, 8285-8295.	3.0	43
141	Ion-beam mixing of Ag/Fe and In/Fe layers studied by hyperfine techniques. Physical Review B, 1996, 53, 10237-10243.	3.2	43
142	Free standing membranes made of biocompatible polyelectrolytes using the layer by layer method. Journal of Membrane Science, 2005, 253, 49-56.	8.2	43
143	Stepâ€byâ€Step Buildâ€Up of Biologically Active Cellâ€Containing Stratified Films Aimed at Tissue Engineering. Advanced Materials, 2009, 21, 650-655.	21.0	43
144	Supramolecular Hydrogel Induced by Electrostatic Interactions between Polycation and Phosphorylated-Fmoc-Tripeptide. Chemistry of Materials, 2020, 32, 1946-1956.	6.7	43

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145	Study of nanocrystalline and amorphous powders prepared by mechanical alloying. Hyperfine Interactions, 1994, 94, 2239-2244.	0.5	41
146	Kinetics of exchange processes in the adsorption of proteins on solid surfaces.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 7330-7334.	7.1	40
147	Scanning Angle Reflectometry Study of the Structure of Antigenâ^'Antibody Layers Adsorbed on Silica Surfaces. Langmuir, 1996, 12, 4857-4865.	3.5	40
148	A molecular based derivation of the nucleation theorem. Journal of Chemical Physics, 2000, 113, 4524-4532.	3.0	40
149	Polyelectrolyte multilayer films under mechanical stretch. Soft Matter, 2007, 3, 1413.	2.7	40
150	Hybrid layer-by-layer composites based on a conducting polyelectrolyte and Fe₃O₄ nanostructures grafted onto graphene for supercapacitor application. Journal of Materials Chemistry A, 2015, 3, 22877-22885.	10.3	40
151	Cell Alignment Driven by Mechanically Induced Collagen Fiber Alignment in Collagen/Alginate Coatings. Tissue Engineering - Part C: Methods, 2015, 21, 881-888.	2.1	39
152	Localized Supramolecular Peptide Selfâ€Assembly Directed by Enzymeâ€Induced Proton Gradients. Angewandte Chemie - International Edition, 2017, 56, 15984-15988.	13.8	39
153	Multiple Strata of Exponentially Growing Polyelectrolyte Multilayer Films. Macromolecules, 2007, 40, 316-321.	4.8	38
154	Competitive adsorption of human immunoglobulin G and albumin: consequences for structure and reactivity of the adsorbed layer.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 9890-9894.	7.1	37
155	FTIRâ^'ATR and Radiolabeling Study of the Adsorption of Ribonuclease A onto Hydrophilic Surfaces:Â Correlation between the Exchange Rate and the Interfacial Denaturation. Langmuir, 1998, 14, 6493-6500.	3.5	37
156	Stretch-Induced Biodegradation of Polyelectrolyte Multilayer Films for Drug Release. Langmuir, 2012, 28, 13550-13554.	3.5	37
157	Polyelectrolyte Films Boost Progenitor Cell Differentiation into Endotheliumâ€like Monolayers. Advanced Materials, 2008, 20, 2674-2678.	21.0	36
158	Î²-Cyclodextrin-Functionalized Chitosan/Alginate Compact Polyelectrolyte Complexes (CoPECs) as Functional Biomaterials with Anti-Inflammatory Properties. ACS Applied Materials & Interfaces, 2018, 10, 29347-29356.	8.0	36
159	Defining Physical Clusters in Nucleation Theory from the N-Particle Distribution Function. Journal of Physical Chemistry B, 1997, 101, 8740-8747.	2.6	35
160	Kinetics of the Homogeneous Exchange of Lysozyme Adsorbed on a Titanium Oxide Surface. Langmuir, 1997, 13, 729-735.	3.5	35
161	Simulative determination of kinetic coefficients for nucleation rates. Journal of Chemical Physics, 2001, 114, 8091-8104.	3.0	35
162	Mechanically Responsive Films of Variable Hydrophobicity Made of Polyelectrolyte Multilayers. Langmuir, 2005, 21, 10328-10331.	3.5	35

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