

Ger Jm Koper

List of Publications by Year in descending order

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136
papers

5,124
citations

94381

37
h-index

98753

67
g-index

140
all docs

140
docs citations

140
times ranked

5444
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient assembly of active materials fueled by a chemical reaction. <i>Science</i> , 2015, 349, 1075-1079.	6.0	656
2	Triggered Self-Assembly of Simple Dynamic Covalent Surfactants. <i>Journal of the American Chemical Society</i> , 2009, 131, 11274-11275.	6.6	174
3	Alignment of Rod-Shaped Gold Particles by Electric Fields. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5754-5760.	1.2	160
4	A domain theory for linear and nonlinear aging effects in spin glasses. <i>Journal De Physique</i> , 1988, 49, 429-443.	1.8	159
5	Proton Binding Characteristics of Branched Polyelectrolytes. <i>Macromolecules</i> , 1997, 30, 2151-2158.	2.2	142
6	Acid-base properties of poly(propylene imine)dendrimers. <i>Polymer</i> , 1998, 39, 2657-2664.	1.8	131
7	Monodisperse hydrogel microspheres by forced droplet formation in aqueous two-phase systems. <i>Lab on A Chip</i> , 2011, 11, 620-624.	3.1	130
8	The influence of nearest- and next-nearest-neighbor interactions on the potentiometric titration of linear poly(ethylenimine). <i>The Journal of Physical Chemistry</i> , 1993, 97, 5745-5751.	2.9	127
9	Protonation Mechanism of Poly(propylene imine) Dendrimers and Some Associated Oligo Amines. <i>Journal of the American Chemical Society</i> , 1997, 119, 6512-6521.	6.6	126
10	Responsive Vesicles from Dynamic Covalent Surfactants. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3421-3424.	7.2	125
11	Kinetics of Particle Adsorption in Stagnation Point Flow Studied by Optical Reflectometry. <i>Journal of Colloid and Interface Science</i> , 1998, 197, 242-250.	5.0	105
12	Adsorption of Poly(amido amine) (PAMAM) Dendrimers on Silica: Importance of Electrostatic Three-Body Attraction. <i>Langmuir</i> , 2008, 24, 465-473.	1.6	99
13	All-aqueous core-shell droplets produced in a microfluidic device. <i>Soft Matter</i> , 2011, 7, 9878.	1.2	89
14	Effect of Oxidation Rate on Cross-Linking of Mussel Adhesive Proteins. <i>Biomacromolecules</i> , 2003, 4, 632-640.	2.6	87
15	Electrode effects in dielectric spectroscopy of colloidal suspensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 235, 269-278.	1.2	85
16	Synthesis and Protonation Behavior of Comblike Poly(ethyleneimine). <i>Macromolecules</i> , 2003, 36, 2500-2507.	2.2	80
17	Proton binding by linear, branched, and hyperbranched polyelectrolytes. <i>Polymer</i> , 2010, 51, 5649-5662.	1.8	78
18	Flow cytometry of human reticulocytes based on RNA fluorescence. <i>Cytometry</i> , 1981, 1, 313-320.	1.8	77

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19	Ion binding to polyelectrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 280-289.	3.4	75
20	On the mechanism of catastrophic phase inversion in emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 231, 11-17.	2.3	74
21	Slow growth of the Rayleigh-Plateau instability in aqueous two phase systems. <i>Biomicrofluidics</i> , 2012, 6, 22007-2200711.	1.2	73
22	Aggregation in Oil-Continuous Water/Sodium Bis(2-ethylhexyl)sulfosuccinate/Oil Microemulsions. <i>The Journal of Physical Chemistry</i> , 1995, 99, 13291-13300.	2.9	72
23	Fe ²⁺ /N supported on graphitic carbon nano-networks grown from cobalt as oxygen reduction catalysts for low-temperature fuel cells. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 75-83.	10.8	69
24	Deposition of nanosized latex particles onto silica and cellulose surfaces studied by optical reflectometry. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 460-471.	5.0	67
25	Ising Models of Polyprotic Acids and Bases. <i>The Journal of Physical Chemistry</i> , 1994, 98, 6038-6045.	2.9	60
26	Synthesis and Protonation Behavior of Carboxylate-Functionalized Poly(propyleneimine) Dendrimers. <i>Macromolecules</i> , 2000, 33, 46-52.	2.2	53
27	Stick-Slip Transition at the Nanometer Scale. <i>Physical Review Letters</i> , 2003, 91, 156102.	2.9	51
28	Ionization Equilibria and Conformational Transitions in Polyprotic Molecules and Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10937-10950.	1.2	51
29	The Kelvin Relation: Stability, Fluctuation, and Factors Involved in Measurement. <i>The Journal of Physical Chemistry</i> , 1995, 99, 7837-7844.	2.9	48
30	Responsive Wormlike Micelles from Dynamic Covalent Surfactants. <i>Langmuir</i> , 2012, 28, 13570-13576.	1.6	47
31	Length Scale for the Constant Pressure Ensemble: Application to Small Systems and Relation to Einstein Fluctuation Theory. <i>The Journal of Physical Chemistry</i> , 1996, 100, 422-432.	2.9	46
32	Binding of Metal Ions to Polyelectrolytes and Their Oligomeric Counterparts: An Application of a Generalized Potts Model. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6666-6674.	1.2	46
33	The effect of lattice strain on catalytic activity. <i>Chemical Communications</i> , 2019, 55, 1338-1341.	2.2	45
34	Affinity distributions and acid-base properties of homogeneous and heterogeneous sorbents: exact results versus experimental data inversion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 107, 285-296.	2.3	42
35	Adsorption of Poly(propylene imine) Dendrimers on Glass. An Interplay between Surface and Particle Properties. <i>Langmuir</i> , 2000, 16, 7713-7719.	1.6	41
36	Scanning Angle Reflectometry Study of the Structure of Antigen-Antibody Layers Adsorbed on Silica Surfaces. <i>Langmuir</i> , 1996, 12, 4857-4865.	1.6	40

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37	On the difference in ionization properties between planar interfaces and linear polyelectrolytes. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3499-3503.	3.3	40
38	A Cluster Expansion Method for the Complete Resolution of Microscopic Ionization Equilibria from NMR Titrations. Analytical Chemistry, 2000, 72, 3272-3279.	3.2	38
39	Cross-Linking and Multilayer Adsorption of Mussel Adhesive Proteins. Langmuir, 2002, 18, 4903-4907.	1.6	36
40	UV protective coatings: A botanical approach. Progress in Organic Coatings, 2007, 58, 166-171.	1.9	36
41	Chemical-gradient directed self-assembly of hydrogel fibers. Soft Matter, 2013, 9, 1556-1561.	1.2	35
42	Dissociation Behavior of Poly(maleic acid): \hat{A} Potentiometric Titrations, Viscometry, Pulsed Field Gradient NMR, and Model Calculations. Macromolecules, 1998, 31, 4182-4188.	2.2	33
43	Direct Visualization of \hat{A} Coagulative Nucleation \hat{A} in Surfactant-Free Emulsion Polymerization. Langmuir, 2013, 29, 11724-11729.	1.6	33
44	Synthesis of Magnetic Noble Metal (Nano)Particles. Langmuir, 2011, 27, 7783-7787.	1.6	32
45	Pt electrodeposited over carbon nano-networks grown on carbon paper as durable catalyst for PEM fuel cells. Applied Catalysis B: Environmental, 2015, 166-167, 155-165.	10.8	32
46	Optical Properties of Surfaces Covered with Latex Particles: Comparison with Theory. The Journal of Physical Chemistry, 1995, 99, 790-797.	2.9	31
47	Lecithin Organogel with New Rheological and Scaling Behavior. Journal of Physical Chemistry B, 2001, 105, 10484-10488.	1.2	31
48	Cd ²⁺ sorption characteristics of iron coated silica. Desalination, 2011, 277, 221-226.	4.0	31
49	Uniform metal nanoparticles produced at high yield in dense microemulsions. Journal of Colloid and Interface Science, 2012, 372, 16-23.	5.0	30
50	How to Determine the Core-Shell Nature in Bimetallic Catalyst Particles?. Catalysts, 2014, 4, 375-396.	1.6	30
51	Branching and percolation in lecithin wormlike micelles studied by dielectric spectroscopy. Physical Review E, 1998, 57, 6875-6883.	0.8	29
52	Micellization Behavior of Aromatic Moiety Bearing Hybrid Fluorocarbon Sulfonate Surfactants. Langmuir, 2012, 28, 3397-3402.	1.6	28
53	Power Law Relaxation in the Random Energy Model. Europhysics Letters, 1987, 3, 1213-1217.	0.7	27
54	The suitability of scanning angle reflectometry for colloidal particle sizing. Journal of Chemical Physics, 1996, 105, 1646-1653.	1.2	27

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55	Bicontinuous Microemulsions for High Yield Wet Synthesis of Ultrafine Platinum Nanoparticles: Effect of Precursors and Kinetics. <i>Langmuir</i> , 2014, 30, 8300-8307.	1.6	26
56	Experimental and molecular dynamics characterization of dense microemulsion systems: morphology, conductivity and SAXS. <i>Soft Matter</i> , 2014, 10, 8685-8697.	1.2	26
57	Direct Observation of Swelling of Non-Cross-Linked Latex Particles by Scanning Angle Reflectometry. <i>Macromolecules</i> , 1996, 29, 801-803.	2.2	25
58	Affinity Distributions of Polyampholytes with Interacting Acid-Base Groups. <i>Langmuir</i> , 1994, 10, 2863-2865.	1.6	24
59	Transport in Proton Exchange Membranes for Fuel Cell Applications—A Systematic Non-Equilibrium Approach. <i>Materials</i> , 2017, 10, 576.	1.3	24
60	Optimal ionic strength for nonionically initiated polymerization. <i>Soft Matter</i> , 2014, 10, 1151.	1.2	23
61	Tunable Order in Alginate/Graphene Biopolymer Nanocomposites. <i>Macromolecules</i> , 2015, 48, 8323-8330.	2.2	23
62	Viscosity of Droplet-Phase Water/AOT/Isooctane Microemulsions: Solid Sphere Behavior and Aggregation. <i>Langmuir</i> , 1994, 10, 1387-1392.	1.6	22
63	Light Reflectivity Study on the Adsorption Kinetics of Poly(propylene imine) Dendrimers on Glass. <i>Langmuir</i> , 2000, 16, 7720-7725.	1.6	22
64	Lecithin Organogel as a Binary Blend of Monodisperse Polymer-like Micelles. <i>Langmuir</i> , 2000, 16, 10564-10565.	1.6	22
65	Characterization of Lecithin Cylindrical Micelles in Dilute Solution. <i>Langmuir</i> , 1998, 14, 7095-7103.	1.6	21
66	Ionization properties of interfaces and linear polyelectrolytes: a discrete charge Ising model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 298, 1-23.	1.2	21
67	Environmentally Friendly Carbon—Preserving Recovery of Noble Metals From Supported Fuel Cell Catalysts. <i>ChemSusChem</i> , 2015, 8, 1926-1934.	3.6	21
68	Physicochemical properties of mixed oxides of iron and silicon. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2704-2708.	1.5	20
69	Water Sorption and Diffusion in (Reduced) Graphene Oxide—Alginate Biopolymer Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1049-1063.	1.7	20
70	Theory of electrode polarization: application to parallel plate cell dielectric spectroscopy experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 210, 137-145.	2.3	19
71	Exact affinity distributions for linear polyampholytes and polyelectrolytes. <i>Journal of Chemical Physics</i> , 1996, 104, 4204-4213.	1.2	18
72	Nonequilibrium dynamics and aging in a one-dimensional Ising spin glass. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 155, 431-459.	1.2	17

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73	An Alternative Method To Quantify Surface Plasmon Resonance Measurements of Adsorption on Flat Surfaces. <i>Langmuir</i> , 2002, 18, 2069-2074.	1.6	17
74	Semiclassical approach to electrorheological fluids. Influence of solid volume fraction on the suspension yield stress. <i>Colloid and Polymer Science</i> , 2002, 280, 160-166.	1.0	17
75	The Lost Work in Dissipative Self-Assembly. <i>International Journal of Thermophysics</i> , 2013, 34, 1229-1238.	1.0	16
76	Automated measurement of immunogalactosidase reactions with a fluorogenic substrate by the aperture defined microvolume measurement method and its potential application to schistosoma mansoni immunodiagnosis. <i>Journal of Immunological Methods</i> , 1980, 36, 269-283.	0.6	15
77	Dielectric Enhancement of Charged Nanospheres Dispersed in an Electrolyte. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11743-11753.	1.2	15
78	The Effect of Magnetic Field on Catalytic Properties in Core-Shell Type Particles. <i>Frontiers in Chemistry</i> , 2020, 8, 163.	1.8	15
79	Carotenoids as End-Cap-Active Agents in Lecithin Cylindrical Micelles. <i>Langmuir</i> , 1999, 15, 3026-3028.	1.6	14
80	Quantitatively Interpreting Thermal Behavior of Self-Associating Systems. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15597-15601.	1.2	14
81	Nonexponential relaxation in the random energy model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 160, 1-23.	1.2	13
82	The definition and use of optical invariants for thin island films. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 207, 285-292.	1.2	13
83	Dielectric response of colloidal spheres in non-symmetric electrolytes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 317, 321-344.	1.2	13
84	Nonequilibrium thermodynamics – A tool to describe heterogeneous catalysis. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5421-5427.	1.3	13
85	The Interpretation of Dielectric Spectroscopy Measurements on Silica and Hematite Sols. <i>Journal of Colloid and Interface Science</i> , 2002, 255, 129-137.	5.0	12
86	Self-assembly behaviour of conjugated terthiophenesurfactants in water. <i>New Journal of Chemistry</i> , 2011, 35, 558-567.	1.4	12
87	Synthesis, Stabilization and Activation of Pt Nanoparticles for PEMFC Applications. <i>Fuel Cells</i> , 2015, 15, 628-638.	1.5	12
88	Bicontinuous microemulsions for high yield, wet synthesis of ultrafine nanoparticles: a general approach. <i>Faraday Discussions</i> , 2015, 181, 37-48.	1.6	12
89	Clustering and relaxation in oil-continuous microemulsions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 194, 105-113.	1.2	11
90	Influence of the distance between ionizable groups on the protonation behavior of various hexaamines. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5649-5652.	1.3	11

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91	Resolution of Microscopic Protonation Enthalpies of Polyprotic Molecules by Means of Cluster Expansions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4300-4309.	1.2	11
92	Resolution of Microscopic Protonation Mechanisms in Polyprotic Molecules. <i>Chimia</i> , 2002, 56, 695-701.	0.3	10
93	Heats of Transfer in the Diffusion Layer before the Surface and the Surface Temperature for a Catalytic Hydrogen Oxidation ($H_2 + (1/2)O_2 \rightarrow H_2O$) Reaction. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4080-4088.	1.1	10
94	Headgroup mobility in lecithin inverse worm-like micelles. <i>Progress in Colloid and Polymer Science</i> , 1997, 105, 204-208.	0.5	10
95	The Percus-Yevick approximation for repulsive hard spheres with surface adhesion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 187, 489-502.	1.2	9
96	Optical properties of colloidal films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 165, 39-57.	2.3	9
97	A Comparison between Light Reflectometry and Ellipsometry in the Rayleigh Regime. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9878-9886.	1.2	9
98	Diffusing wave spectroscopy: A novel rheological method for drying paint films. <i>Surface Coatings International Part B: Coatings Transactions</i> , 2005, 88, 135-138.	0.3	9
99	Electrocatalytic Activity and Durability of Pt-Decorated Non-Covalently Functionalized Graphitic Structures. <i>Catalysts</i> , 2015, 5, 1622-1635.	1.6	9
100	A model for repulsive hard spheres with surface adhesion. <i>Journal of Chemical Physics</i> , 1992, 96, 7193-7194.	1.2	8
101	A Scanning-Angle Reflectometry Study of Surfaces Covered with Latex Particles. <i>Europhysics Letters</i> , 1993, 22, 543-548.	0.7	8
102	Optical properties of surfaces covered by latex particles with a bimodal size distribution: comparison with theory. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1046.	0.8	8
103	Fast Adsorption on Nonideal Surfaces. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11729-11736.	1.2	8
104	Polarization between concentric cylindrical electrodes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 326, 129-140.	1.2	8
105	Dielectric Spectroscopy Measurements on Latex Dispersions. <i>Langmuir</i> , 2003, 19, 3619-3627.	1.6	8
106	Networked Graphitic Structures as Durable Catalyst Support for PEM Electrodes. <i>Fuel Cells</i> , 2014, 14, 350-356.	1.5	8
107	Composition dependent properties of graphene (oxide)-alginate biopolymer nanocomposites. <i>Polymer Composites</i> , 2018, 39, E236.	2.3	8
108	Effect of Particle Size on the Sticking Probability. <i>Journal of Colloid and Interface Science</i> , 2001, 239, 581-583.	5.0	7

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109	Impact of the Imaginary Part of the Surface Dilatational Modulus on the Splashing Behavior of Drops. <i>Langmuir</i> , 2015, 31, 1874-1878.	1.6	7
110	The look-up table: A classifier for cell sorters. <i>Cytometry</i> , 1981, 1, 394-396.	1.8	6
111	Automated measurement of proteinase activity with a fluorogenic substrate using an inverted fluorescence microscope. <i>Analytical Biochemistry</i> , 1982, 126, 170-173.	1.1	6
112	Dynamics of wormlike micelles and their networks in organic solvents, studied with electrooptic birefringence. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 140, 151-156.	2.3	6
113	Electrooptic Behavior and Structure of Novel Polymer Vesicle Hybrids. <i>Langmuir</i> , 1999, 15, 8849-8855.	1.6	6
114	Structure and Percolation of Inverted Cylindrical Branched Micelles. <i>Journal of Dispersion Science and Technology</i> , 2001, 22, 211-219.	1.3	6
115	Multi-particle interaction in a model of the hydrophobic interaction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 291, 39-48.	1.2	6
116	Influence of a surfactant or salt on phase inversion in a water-oil pipe flow. <i>Chemical Engineering Research and Design</i> , 2009, 87, 1466-1470.	2.7	6
117	Anomalous magnetism in noble metal (nano)particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 413, 248-251.	2.3	6
118	The look-up table: A logarithmic converter for cell sorters. <i>Cytometry</i> , 1981, 2, 194-197.	1.8	5
119	An epilluminator/detector unit permitting arc lamp illumination for fluorescence activated cell sorters. <i>Cytometry</i> , 1982, 3, 10-14.	1.8	5
120	Electrically induced anisotropy in nanospheres dispersions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 298, 24-31.	1.2	5
121	Film formation from concentrated emulsions studied by simultaneous conductometry and gravimetry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 210, 129-135.	2.3	5
122	Friction in surfactant layers at solid-liquid interfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 270-271, 252-256.	2.3	5
123	Entropy production for cylinder drying of linerboard and newsprint. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1344-1355.	2.5	5
124	High yield, controlled synthesis of graphitic networks from dense micro emulsions. <i>Chemical Communications</i> , 2014, 50, 11848-11851.	2.2	5
125	New Method to Determine the Viscoelastic Properties of Admicelles around the Stick-Slip Transition. <i>Langmuir</i> , 2006, 22, 5991-5993.	1.6	4
126	Influence of the stick-slip transition on the electrokinetic behavior of nanoporous material. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 373, 21-28.	1.2	4

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127	The intrinsic view of ionization equilibria of polyprotic molecules. <i>New Journal of Chemistry</i> , 2014, 38, 5679-5685.	1.4	4
128	High precision scanning angle ellipsometry. <i>Review of Scientific Instruments</i> , 2001, 72, 2407-2414.	0.6	3
129	Acceleration of spin glass dynamics by temperature variations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 164, 35-51.	1.2	2
130	Selective recovery of micrometer particles from mixtures using a combination of selective aggregation and dissolved-air flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 280, 216-231.	2.3	2
131	Anomalous water sorption kinetics in supported Nafion thin-films as membrane-electrode assemblies. <i>Journal of Membrane Science</i> , 2022, 650, 120368.	4.1	2
132	Anomalous thickness dependence of nano-composite layer-by-layer membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 442, 2-5.	2.3	1
133	The use of reflectometry for the study of swelling of latex particles at a silica surface. <i>Progress in Colloid and Polymer Science</i> , 1997, 104, 107-109.	0.5	1
134	Reply to the preceding comment by J.A. Schwarz. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 122, 267-268.	2.3	0
135	Electrically induced anisotropy in a colloidal dispersion of nanospheres as measured by electric birefringence. <i>Journal of Colloid and Interface Science</i> , 2006, 295, 528-534.	5.0	0
136	Dynamics of living and dead polymers studied by electrooptical birefringence. <i>Progress in Colloid and Polymer Science</i> , 1997, 105, 294-297.	0.5	0