

# Naoto Ohmura

## List of Publications by Citations

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121  
papers

760  
citations

13  
h-index

23  
g-index

125  
ext. papers

834  
ext. citations

2.2  
avg, IF

3.65  
L-index

#	Paper	IF	Citations
121	Emulsion polymerization of styrene in a continuous Taylor vortex flow reactor. <i>Chemical Engineering Science</i> , <b>1995</b> , 50, 1409-1416	4.4	92
120	Selective separation of CO <sub>2</sub> by using novel facilitated transport membrane at elevated temperatures and pressures. <i>Journal of Membrane Science</i> , <b>2007</b> , 291, 157-164	9.6	87
119	Effective mass diffusion over cell boundaries in a Taylor-Couette flow system. <i>Chemical Engineering Science</i> , <b>1997</b> , 52, 1757-1765	4.4	46
118	Construction of a xylose-metabolizing yeast by genome integration of xylose isomerase gene and investigation of the effect of xylitol on fermentation. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 88, 1215-21	5.7	34
117	Observation of Isolated Mixing Regions in a Stirred Vessel.. <i>Journal of Chemical Engineering of Japan</i> , <b>2001</b> , 34, 574-578	0.8	26
116	Process intensification of continuous starch hydrolysis with a Couette-Taylor flow reactor. <i>Chemical Engineering Research and Design</i> , <b>2013</b> , 91, 2259-2264	5.5	20
115	Sugar consumption and ethanol fermentation by transporter-overexpressed xylose-metabolizing <i>Saccharomyces cerevisiae</i> harboring a xylose isomerase pathway. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 114, 209-11	3.3	20
114	Controlling particle size by self-sustained oscillations in continuous emulsion polymerization of vinyl acetate. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 2129-2135	4.4	19
113	Advances in Biological Liquid Crystals. <i>Small</i> , <b>2019</b> , 15, e1900019	11	17
112	Solid-Liquid separation by particle-flow-instability. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3982-3988	35.4	16
111	Enhanced mixing of Newtonian fluids in a stirred vessel using impeller speed modulation. <i>Canadian Journal of Chemical Engineering</i> , <b>2009</b> , 87, 839-846	2.3	16
110	Dynamics of the helical flow between rotating conical cylinders. <i>Journal of Fluids and Structures</i> , <b>2005</b> , 20, 331-344	3.1	16
109	Transition of Organized Flow Structure in a Stirred Vessel at Low Reynolds Numbers.. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 1458-1463	0.8	14
108	Prediction of onset of Taylor-Couette instability for shear-thinning fluids. <i>Rheologica Acta</i> , <b>2017</b> , 56, 73-84	8.3	13
107	MECHANISM OF MODE SELECTION FOR TAYLOR VORTEX FLOW BETWEEN COAXIAL CONICAL ROTATING CYLINDERS. <i>Journal of Fluids and Structures</i> , <b>2002</b> , 16, 247-262	3.1	12
106	Particle classification in Taylor vortex flow with an axial flow. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 14, 64-71	0.3	12
105	Methods of Numerically Analyzing and Visually Measuring Transport Phenomena in Chemical Equipment. Isolated Mixing Region in a Taylor-Vortex-flow Reactor.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2001</b> , 27, 566-573	0.4	12

104	Improvement of separation performance by fluid motion in the membrane module with a helical baffle. <i>Separation and Purification Technology</i> , <b>2018</b> , 198, 52-59	8.3	11
103	Inclined-Shaft Agitation for Improved Viscous Mixing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 11741-11751	3.9	11
102	Intensification of Starch Processing Using Apparatus with Couette-Taylor Flow. <i>Journal of Food Process Engineering</i> , <b>2013</b> , 36, 774-785	2.4	11
101	Intercellular mass transfer in wavy/turbulent Taylor vortex flow. <i>International Journal of Heat and Fluid Flow</i> , <b>1998</b> , 19, 159-166	2.4	11
100	Measurement of Drying Rate of Glue Coating by Modified Temperature Change Method. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 246-251	0.4	11
99	Intensification of hollow fiber membrane cross-flow filtration by the combination of helical baffle and oscillatory flow. <i>Journal of Membrane Science</i> , <b>2018</b> , 554, 134-139	9.6	10
98	Process development of starch hydrolysis using mixing characteristics of Taylor vortices. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2017</b> , 81, 755-761	2.1	9
97	Optimized Stirred Reactor for Enhanced Particle Dispersion. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 680-688	2	9
96	Flow dynamics in Taylor-Couette flow reactor with axial distribution of temperature. <i>AIChE Journal</i> , <b>2018</b> , 64, 1075-1082	3.6	8
95	Effect of ultrasonic pretreatment on emulsion polymerization of styrene. <i>Ultrasonics Sonochemistry</i> , <b>2016</b> , 31, 337-41	8.9	8
94	Synthesis of thiol-capped gold nanoparticle with a flow system using organosilane as a reducing agent. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 4457-4459	2	8
93	Novel Operating Method for Controlling Latex Particle Size Distribution in Emulsion Polymerization of Vinyl Acetate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 5177-5183	3.9	8
92	Prediction of Polymer Content Profile in Convective Dried Porous Slab Wetted with Polymer Solution.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 819-822	0.4	8
91	Process Development for Ultrasonic Fracturing of Zirconium Phosphate Particles. <i>Journal of Chemical Engineering of Japan</i> , <b>2014</b> , 47, 124-129	0.8	7
90	Effect of wall alignment in a very short rotating annulus. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2009</b> , 14, 613-621	3.7	7
89	Numerical Computation of Apex Angle Effects on Taylor Vortices in Rotating Conical Cylinders Systems.. <i>Journal of Chemical Engineering of Japan</i> , <b>2002</b> , 35, 22-31	0.8	7
88	Effect of Vortex Cell Structure on Bifurcation Properties in a Taylor Vortex Flow System.. <i>Journal of Chemical Engineering of Japan</i> , <b>1995</b> , 28, 758-764	0.8	7
87	Drying Rate and Surface Optical Characteristic of Slurry Coating. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 297-303	0.4	7

86	Mixing Characteristics in a Conical Taylor-Couette Flow System at Low Reynolds Numbers. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 546-550	0.8	6
85	Effect of the Emulsifier on the Dynamic Behavior of Particle Size Distribution in Continuous Emulsion Polymerization of Vinyl Acetate. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 461-464	0.8	6
84	Emulsion Polymerization of Vinyl Acetate in a System of Two CSTR in Series. <i>Journal of Chemical Engineering of Japan</i> , <b>2005</b> , 38, 722-726	0.8	6
83	Effect of Rheological Property of Fluids on Mixing Time in a Stirred Vessel. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 539-542	0.4	5
82	Heat transfer characteristics of Taylor vortex flow with shear-thinning fluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 130, 274-281	4.9	5
81	Numerical Simulation of Sterilization Processes for Shear-Thinning Food in Taylor-Couette Flow Systems. <i>Chemical Engineering and Technology</i> , <b>2019</b> , 42, 859-866	2	4
80	Intensification of Mixing Processes with Complex Fluids. <i>Journal of Chemical Engineering of Japan</i> , <b>2018</b> , 51, 129-135	0.8	4
79	Flow and sedimentation characteristics of silica hard-shell microcapsule slurries treated with additives. <i>International Journal of Refrigeration</i> , <b>2019</b> , 106, 18-23	3.8	4
78	Characterizations of the submerged fermentation of <i>Aspergillus oryzae</i> using a Fullzone impeller in a stirred tank bioreactor. <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 123, 101-108	3.3	4
77	Advances in Mixing Technology: Recent Advances in Mixing Research and Development. <i>International Journal of Chemical Engineering</i> , <b>2012</b> , 2012, 1-2	2.2	4
76	Computation Transport Phenomena in Chemical Engineering. Vortex Generation and Properties of Transition to Turbulence in a Taylor-Couette Flow System with Small Aspect Ratio.. <i>Kagaku Kogaku Ronbunshu</i> , <b>1997</b> , 23, 741-748	0.4	4
75	Flow Mechanism of a Submerged Jet Impinging on a Free Interface.. <i>Journal of Chemical Engineering of Japan</i> , <b>2001</b> , 34, 912-918	0.8	4
74	Stochastic Modeling of Dynamic Behavior of Particle Size Distribution in Continuous Emulsion Polymerization. <i>Journal of Chemical Engineering of Japan</i> , <b>2007</b> , 40, 228-234	0.8	4
73	Effect of geometrical configuration of reactor on a ZrP nano-dispersion process using ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 52, 157-163	8.9	4
72	Enzymatic starch hydrolysis performance of Taylor-Couette flow reactor with ribbed inner cylinder. <i>Chemical Engineering Science</i> , <b>2021</b> , 231, 116270	4.4	4
71	Effect of Shear Rate Distribution on Particle Aggregation in a Stirred Vessel. <i>Chemical Engineering and Technology</i> , <b>2017</b> , 40, 493-497	2	3
70	Liquid-Liquid two phase flow of millichannel with a dynamic mixer. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2011</b> , 50, 1-8	3.7	3
69	Drying of Wet Porous Material Using a Combined Convective and Microwave Dryer of Laboratory Scale. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 718-721	0.4	3

68	EFFECTS OF FABRICATION CONDITIONS ON SILICA HARD-SHELL MICROCAPSULES CONTAINING PHASE CHANGE MATERIALS <b>2018</b> ,		3
67	Intensifying the Fermentation of <i>Aspergillus oryzae</i> in a Stirred Bioreactor Using Maxblend Impeller. <i>Open Chemical Engineering Journal</i> , <b>2016</b> , 10, 88-109	1.2	3
66	Using a flexible shaft agitator to enhance the rheology of a complex fungal fermentation culture. <i>Bioprocess and Biosystems Engineering</i> , <b>2016</b> , 39, 1793-801	3.7	3
65	Bioethanol production from mixed sugars using sugar uptake ability enhanced yeast strain by overexpression of transporters. <i>Journal of Bioscience and Bioengineering</i> , <b>2009</b> , 108, S53	3.3	2
64	Effect of Temperature Change on Geometric Structure of Isolated Mixing Regions in Stirred Vessel. <i>International Journal of Chemical Engineering</i> , <b>2012</b> , 2012, 1-6	2.2	2
63	Characterisation of Isolated Mixing Regions in a Stirred Vessel. <i>International Journal of Chemical Reactor Engineering</i> , <b>2008</b> , 6,	1.2	2
62	A numerical study of Taylor vortex flow in a finite length tapered annulus. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 14, 20-29	0.3	2
61	Dispersion of Floating Particles in a Taylor Vortex Flow Reactor. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 319-325	0.8	2
60	Characteristics of Continuous Emulsion Polymerization of Vinyl Acetate with a Compartment Reactor. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 70-75	0.8	2
59	Effect of Particle Motion in Isolated Mixing Regions on Mixing in Stirred Vessel. <i>Journal of Chemical Engineering of Japan</i> , <b>2009</b> , 42, 459-463	0.8	2
58	A New Estimation Method of Turbulent Flow Structures Effective for Impingement Heat Transfer Augmentation.. <i>Journal of Chemical Engineering of Japan</i> , <b>2001</b> , 34, 1136-1140	0.8	2
57	Effect of Inhomogeneous Mixing on Chemical Reaction in a Taylor Vortex Flow Reactor.. <i>Journal of Chemical Engineering of Japan</i> , <b>2002</b> , 35, 692-695	0.8	2
56	Combined Convective and Microwave Drying of Porous Material Wetted with Polymer Solutions.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2004</b> , 30, 98-101	0.4	2
55	Dynamical Particle Motions in Vortex Flows <b>2017</b> ,		1
54	Mixing Characteristics of Submerged Fungal Fluid in a Flexible Stirred Mixer System. <i>Journal of Chemical Engineering of Japan</i> , <b>2018</b> , 51, 143-151	0.8	1
53	Instabilities of the Belousov-Zhabotinsky Reaction in a Taylor Vortex Flow Reactor with Constant Axial Flow.. <i>Journal of Chemical Engineering of Japan</i> , <b>1997</b> , 30, 388-395	0.8	1
52	Improving Heat Transfer with Taylor Vortices in a Compact Modified Couette-Taylor Apparatus. <i>Journal of Chemical Engineering of Japan</i> , <b>2007</b> , 40, 951-956	0.8	1
51	Nonlinear Phenomena. Effect of Reactor Volume on Concentration Oscillations of Belousov-Zhabotinsky Reaction System in CSTR.. <i>Kagaku Kogaku Ronbunshu</i> , <b>1999</b> , 25, 559-563	0.4	1

50	Electrochemical observation of instabilities of the Belousov-Zhabotinskii reaction in CSTR. <i>Journal of Applied Electrochemistry</i> , <b>1994</b> , 24, 647-651	2.6	1
49	Mixing-Effective Motion of High Viscosity Fluid Around a Rotating Elliptic Cylinder.. <i>Journal of Chemical Engineering of Japan</i> , <b>2000</b> , 33, 420-426	0.8	1
48	Time-Dependent Structures of a Two-Dimensional Turbulent Impinging Jet Accompanied by Longitudinal Vortex Pair. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 299-303	0.8	1
47	Control of Polymer Content Profile within Dried Porous Material Wetted with Aqueous Polymer Solution by Sequential Drying with Microwave and Convection.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2004</b> , 30, 91-94	0.4	1
46	Correlative Method for Drying Rate Curves of Coated Film with Constant Temperature of Hot Air. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 639-645	0.4	1
45	Kinetic Analysis of Syngas Formation from Carbon Dioxide (Dry Reforming of Methane with Carbon Dioxide) for Process Intensification. <i>Kagaku Kogaku Ronbunshu</i> , <b>2011</b> , 37, 128-133	0.4	1
44	Process Intensification of Continuous Emulsion Polymerization of Vinyl Acetate by a Method of Function Module Representation. <i>Kagaku Kogaku Ronbunshu</i> , <b>2011</b> , 37, 134-139	0.4	1
43	Numerical Study of Swirl Properties of Rotating Conical Channel with Axial Flow. <i>Journal of Chemical Engineering of Japan</i> , <b>2000</b> , 32, 732-741	0.8	1
42	Dynamics of a Surface Bump Generated by an Air-Water Free Surface Jet Impingement.. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 147-154	0.8	1
41	Continuous Emulsion Polymerization of Vinyl Acetate with Periodic Alternation of Reaction Temperature. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 378-381	0.4	1
40	Dynamics of Emulsion Polymerization of Vinyl Acetate by Batch and Continuous Flow Operations. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 363-367	0.4	1
39	Prediction of Adsorption Rate on Slab with an Adsorption Amount-dependent Diffusion Coefficient. <i>Kagaku Kogaku Ronbunshu</i> , <b>2004</b> , 30, 243-245	0.4	1
38	A Model of Continuous Hot-Air Drying of Film Coated with Water-Based Polymer in an Unsteady-State Operation. <i>Kagaku Kogaku Ronbunshu</i> , <b>2008</b> , 34, 463-470	0.4	1
37	Impacts of the Surfactant Concentration on the Sedimentation Characteristics of Silica Hard-Shell Microcapsules Containing Phase Change Materials. <i>Journal of Chemical Engineering of Japan</i> , <b>2020</b> , 53, 431-437	0.8	1
36	Preparation of a Photoresponsive Tracer to Evaluate the Performance of Dry-Type Powder Photoreactors. <i>Journal of Chemical Engineering of Japan</i> , <b>2017</b> , 50, 710-715	0.8	1
35	Drying Rate and Surface Temperature in Solidification of Glass Particle Layer with Inorganic Binder by Microwave Drying. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 229-231	0.4	1
34	Representative shear rate for particle agglomeration in a mixing tank. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 171, 73-79	5.5	1
33	Effect of Baffle Clearance on Scale Deposition in an Agitated Vessel. <i>ACS Omega</i> , <b>2021</b> , 6, 24070-24074	3.9	1

32	Global Convection Characteristics of Conical Taylor-Couette Flow with Shear-Thinning Fluids. <i>Chemical Engineering and Technology</i> , <b>2021</b> , 44, 2049	2	1
31	Thermal treatment of starch slurry in Couette-Taylor flow apparatus. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , <b>2017</b> , 38, 345-361		0
30	Topology and dynamics of streakline on the mixing boundary of two-dimensional chaotic flow induced by a rotationally reciprocating anchor impeller. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2022</b> , 131, 104213	5.3	0
29	Enhancement of Gas Hold-Up with a Taylor Vortex Flow System Equipped with Ribs. <i>Journal of Chemical Engineering of Japan</i> , <b>2013</b> , 46, 27-32	0.8	0
28	Evaporative Heat Transfer Characteristics of a Novel Continuous, Multi-Staged Evaporator/Distiller with Unsteady Falling Liquid Film Flow. <i>Kagaku Kogaku Ronbunshu</i> , <b>2018</b> , 44, 107-112	0.4	
27	Process Intensification of Emulsion Polymerization Using a Compartment Reactor. <i>Chemical Engineering and Technology</i> , <b>2012</b> , 35, 1273-1280	2	
26	Cutting-Edge Research at the Membrane Center in Kobe University in Japan. <i>Biotechnology and Biotechnological Equipment</i> , <b>2013</b> , 27, 3478-3484	1.6	
25	Preface to the Special Issue for the 3rd ASIAN CONFERENCE ON MIXING (ACOM). <i>Journal of Chemical Engineering of Japan</i> , <b>2011</b> , 44, 829	0.8	
24	JCEJ Outstanding Paper Award of 2008. <i>Journal of Chemical Engineering of Japan</i> , <b>2009</b> , 42, 457-458	0.8	
23	Effect of Circulating Flow on Particle Dispersion in a Stirred Vessel with Dual Paddle Impellers. <i>Journal of the Society of Powder Technology, Japan</i> , <b>2010</b> , 47, 317-326	0.3	
22	Outstanding Paper of 2007. <i>Journal of Chemical Engineering of Japan</i> , <b>2008</b> , 41, 737-738	0.8	
21	Analysis of quasi-steady acceleration in circular Couette flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2008</b> , 13, 1796-1800	3.7	
20	Friction Factor Distribution at the Side Wall of a Turbulent Agitated Vessel with Baffles Using a MAXBLEND Impeller. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 1514-1522	3.9	
19	Drying rate of latex coating affected by the deformability of resin particles in convection drying.. <i>European Physical Journal E</i> , <b>2022</b> , 45, 2	1.5	
18	Convective-conductive Drying of a Thin Shrinkable Fibrous Layer Wetted with Latex as a Binder. <i>Kagaku Kogaku Ronbunshu</i> , <b>2003</b> , 29, 722-725	0.4	
17	Time-Dependent Flow Properties in Doubly Periodic and Weakly Turbulent Wavy Vortex Flows in a Taylor-Couette Flow System. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 572-576	0.8	
16	Regular Regime and Drying Characteristic Function of Porous Slab with Surface Resistance for Mass Transfer. <i>Kagaku Kogaku Ronbunshu</i> , <b>2004</b> , 30, 368-371	0.4	
15	Mixing Characteristics of a "VIBRO MIXER" Vibration Mixer.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2004</b> , 30, 1-6	0.4	

14	Reaction/Coagulation Dynamics in a Continuous Emulsion Polymerization Process of Vinyl Acetate. <i>Kagaku Kogaku Ronbunshu</i> , <b>2008</b> , 34, 125-129	0.4
13	Outstanding Paper of 2007. <i>Kagaku Kogaku Ronbunshu</i> , <b>2008</b> , 34, 415-416	0.4
12	Gas Absorption Enhancement of Slug Flow in the Presence of Non-Porous Silica Fine Particles. <i>Journal of Chemical Engineering of Japan</i> , <b>2020</b> , 53, 409-413	0.8
11	Experimental Study on Mass Transfer in a Packed Distillation Column. <i>Journal of Chemical Engineering of Japan</i> , <b>2020</b> , 53, 402-408	0.8
10	Effect of Microwave on Solidification of Particle Layer by Drying. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 279-281	0.4
9	Outstanding Paper of 2008. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 337-338	0.4
8	Thermal Power Generated in a Wet Porous Slab by Dielectric Drying. <i>Kagaku Kogaku Ronbunshu</i> , <b>2010</b> , 36, 379-382	0.4
7	Preface to the Special Issue for IWPI 2008. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 1	0.8
6	Preface to the Special Issue Development of Process Intensification Based on Analysis of Dynamic Phenomena□ <i>Kagaku Kogaku Ronbunshu</i> , <b>2011</b> , 37, 79	0.4
5	Operation for Fine Particle Dispersion in Shear-Thinning Fluid in a Stirred Vessel. <i>Journal of Chemical Engineering of Japan</i> , <b>2012</b> , 45, 258-264	0.8
4	Computer-aided Semi-empirical Model of Interphase Mass and Enthalpy Transfer in a Packed Column Distillation Process. <i>Computer Aided Chemical Engineering</i> , <b>2020</b> , 48, 1-6	0.6
3	Forced Motion of a Single Particle in Micron-sized Particle Dispersion. <i>Journal of the Society of Powder Technology, Japan</i> , <b>2021</b> , 58, 138-146	0.3
2	Using Motion Analysis to Evaluate Techniques for Whipping Heavy Cream by Hand. <i>Journal of Chemical Engineering of Japan</i> , <b>2018</b> , 51, 180-184	0.8
1	Stress development of latex coatings in a convection drying with the accumulation and deformation of polymer particles. <i>Progress in Organic Coatings</i> , <b>2022</b> , 170, 106941	4.8