

# Hiroshi Suzuki

## List of Publications by Citations

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120  
papers

975  
citations

16  
h-index

25  
g-index

136  
ext. papers

1,089  
ext. citations

1.8  
avg, IF

4.06  
L-index

#	Paper	IF	Citations
120	Unsteady flow in a channel obstructed by a square rod (crisscross motion of vortex). <i>International Journal of Heat and Fluid Flow</i> , <b>1993</b> , 14, 2-9	2.4	98
119	Non-Newtonian viscosity of dense slurries prepared by spherical particles. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 2979-2989	4.4	38
118	Dissimilarity between heat and momentum transfer in a turbulent boundary layer disturbed by a cylinder. <i>International Journal of Heat and Mass Transfer</i> , <b>1988</b> , 31, 259-265	4.9	36
117	Preventing agglomeration and growth of ice particles in water with suitable additives. <i>International Journal of Refrigeration</i> , <b>2005</b> , 28, 20-26	3.8	33
116	Rheological characteristics of trimethylolethane hydrate slurry treated with drag-reducing surfactants. <i>Rheologica Acta</i> , <b>2006</b> , 46, 287-295	2.3	26
115	Development characteristics of drag-reducing surfactant solution flow in a duct. <i>Rheologica Acta</i> , <b>2004</b> , 43, 232-239	2.3	26
114	Surfactant Drag Reduction Caused by a Cationic Surfactant with Excess Addition of Counter-ions. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 1232-1237	0.8	25
113	Development characteristics of fluctuating velocity field of drag-reducing surfactant solution flow in a duct. <i>Rheologica Acta</i> , <b>2005</b> , 44, 457-464	2.3	21
112	Hydrodynamics and Heat Transfer Characteristics of Drag-Reducing Trimethylolethane Solution and Suspension by Cationic Surfactant. <i>Journal of Chemical Engineering of Japan</i> , <b>2006</b> , 39, 623-632	0.8	20
111	Thermophysical properties and reaction rate of composite reactant of calcium chloride and expanded graphite. <i>Applied Thermal Engineering</i> , <b>2013</b> , 50, 1627-1632	5.8	19
110	Instantaneous structure and statistical feature of unsteady flow in a channel obstructed by a square rod. <i>International Journal of Heat and Fluid Flow</i> , <b>1994</b> , 15, 426-437	2.4	19
109	UNSTEADY HEAT TRANSFER IN A CHANNEL OBSTRUCTED BY AN IMMERSED BODY. <i>Annual Review of Heat Transfer</i> , <b>1994</b> , 5, 177-206	2.7	19
108	Viscosity Prediction of Dense Slurries Prepared by Non-Spherical Solid Particles.. <i>Journal of Chemical Engineering of Japan</i> , <b>2001</b> , 34, 360-368	0.8	18
107	Flow and heat transfer characteristics of ammonium alum hydrate slurries. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 81-87	3.8	17
106	Drag reduction characteristics of trimethylolethane hydrate slurries treated with surfactants. <i>International Journal of Refrigeration</i> , <b>2009</b> , 32, 931-937	3.8	17
105	Relaxation Behavior of a Drag-Reducing Cationic Surfactant Solution. <i>Nihon Reoroji Gakkaishi</i> , <b>2012</b> , 40, 85-90	0.8	17
104	Adhesive behavior of a calcium carbonate particle to solid walls having different hydrophilic characteristics. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 92, 603-609	4.9	16

103	Effects of flexibility and entanglement of sodium hyaluronate in solutions on the entry flow in micro abrupt contraction-expansion channels. <i>Physics of Fluids</i> , <b>2019</b> , 31, 072005	4.4	16
102	Characteristic scales of two-dimensional turbulence in polymer solutions. <i>AIChE Journal</i> , <b>2014</b> , 60, 1854-1862	3.6	14
101	Dispersion Control of Nano-Particles and the Effect of the Coating Condition on the Performance of Proton-Exchange Membrane Fuel Cells (PEMFCs). <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 31-39	0.8	14
100	Agglomeration Control of Ice Particles in Ice-Water Slurry System Using Surfactant Additives. <i>HVAC and R Research</i> , <b>2002</b> , 8, 453-466		14
99	Effect of Pulsating Strouhal Number on Heat Transfer around a Heated Cylinder in Pulsating Cross-Flow.. <i>JSME International Journal Series B</i> , <b>2000</b> , 43, 250-257		14
98	Investigation of Thermal Properties of Na <sub>2</sub> HPO <sub>4</sub> Hydrate Slurries for Evaluating Their Use as a Coolant in Absorption Chillers. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 34-39	0.8	13
97	Flow and heat transfer over a backward-facing step with a cylinder mounted near its top corner. <i>International Journal of Heat and Fluid Flow</i> , <b>1991</b> , 12, 353-359	2.4	13
96	Controlling of Dispersion State of Particles in Slurry and Electrochemical Properties of Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A501-A506	3.9	12
95	Effects of the extensional rate on two-dimensional turbulence of semi-dilute polymer solution flows. <i>Rheologica Acta</i> , <b>2013</b> , 52, 949-961	2.3	12
94	Drag-reduction of a nonionic surfactant aqueous solution and its rheological characteristics. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 772-778	3.5	12
93	Particle Size Characteristics of Ice Slurry Treated with Surfactants and Brines. <i>Journal of Chemical Engineering of Japan</i> , <b>2009</b> , 42, 447-451	0.8	12
92	Study of Pipeline Transportation of Dense Fly Ash-Water Slurry. <i>Coal Preparation</i> , <b>2002</b> , 22, 65-80		12
91	Fluid Deformation Induced by a Rotationally Reciprocating Impeller. <i>Journal of Chemical Engineering of Japan</i> , <b>2014</b> , 47, 151-158	0.8	12
90	Effects of the extensional rheological properties of polymer solutions on vortex shedding and turbulence characteristics in a two-dimensional turbulent flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2018</b> , 254, 1-11	2.7	11
89	Viscosity measuring technique for gas-solid suspensions. <i>Advanced Powder Technology</i> , <b>2006</b> , 17, 333-343	3.6	11
88	Ammonium alum hydrate slurries with surfactants and polyvinyl alcohol as a latent heat transportation material for high temperature. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 124, 1334-1346	4.9	10
87	Fabrication of hard-shell microcapsules containing inorganic materials. <i>International Journal of Refrigeration</i> , <b>2017</b> , 82, 97-105	3.8	10
86	Flow Past Large Obstructions Between Corotating Disks in Fixed Cylindrical Enclosures. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1997</b> , 119, 499-505	2.1	10

85	Suppression of Ice Particle Growth and the Possibility of Energy Saving Latent Heat Transportation by Using Surfactant Additives. <i>Journal of Chemical Engineering of Japan</i> , <b>2004</b> , 37, 15-22	0.8	10
84	Phase Separation Characteristics of Ammonium Alum Hydrates with Poly Vinyl Alcohol. <i>Journal of Chemical Engineering of Japan</i> , <b>2014</b> , 47, 169-174	0.8	9
83	Flow and Heat Transfer Characteristics of Ammonium Alum Hydrate Slurry Treated with Surfactants. <i>Journal of Chemical Engineering of Japan</i> , <b>2012</b> , 45, 136-141	0.8	9
82	Behavior of Fine Particle Agglomerates in a Newtonian Molten Polymer Under a Shear Flow. <i>Advanced Powder Technology</i> , <b>2008</b> , 19, 507-521	4.6	9
81	Power Characteristics of a Rotationally Reciprocating Impeller. <i>Journal of Chemical Engineering of Japan</i> , <b>2015</b> , 48, 885-890	0.8	8
80	Improvement of Thixotropy Model Analyzing Dispersion Characteristics of Fine Particles in Newtonian Molten Polymer. <i>Nihon Reoraji Gakkaishi</i> , <b>2009</b> , 37, 191-198	0.8	8
79	Effects of Extensional Rates on Anisotropic Structures and Characteristic Scales of Two-Dimensional Turbulence in Polymer Solutions. <i>Flow, Turbulence and Combustion</i> , <b>2016</b> , 96, 227-244	2.5	7
78	Fabrication Process of Silica Hard-shell Microcapsule (HSMC) Containing Phase-change Materials. <i>Chemistry Letters</i> , <b>2014</b> , 43, 820-821	1.7	7
77	Flow characteristics in a micro-cavity swept by a visco-elastic fluid. <i>Experimental Thermal and Fluid Science</i> , <b>2015</b> , 67, 96-101	3	7
76	Model analysis on dispersion characteristics of fine particles in Newtonian molten polymer. <i>Advanced Powder Technology</i> , <b>2009</b> , 20, 139-144	4.6	7
75	Formation of Particle Layer Within Coated Slurry Characterized by Thickness Variation. <i>Drying Technology</i> , <b>2011</b> , 29, 1037-1045	2.6	7
74	Particle Size Depression and Drag Reduction of Ice Slurry Treated with Combination Additives of Surfactants and Poly(vinyl alcohol). <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 482-486	0.8	7
73	Effect of molar ratio of counter-ions to cationic surfactants on drag reduction characteristics of trimethylolethane hydrate slurries. <i>International Journal of Refrigeration</i> , <b>2010</b> , 33, 1632-1638	3.8	7
72	A study on Cationic Surfactants as Drag-Reducing Additives. <i>Chemical Engineering Communications</i> , <b>2002</b> , 189, 1671-1683	2.2	7
71	Aggregation/Dispersion Behaviors of Fine Particles in a Flow between Parallel Plates. <i>Journal of Chemical Engineering of Japan</i> , <b>2013</b> , 46, 524-529	0.8	7
70	Prediction of Flow Characteristics of Whipped Cream under Pressurized Condition.. <i>Journal of Chemical Engineering of Japan</i> , <b>2000</b> , 33, 785-792	0.8	6
69	Unsteady flow and heat transfer in a channel obstructed by a square rod. 1st Report. Validation of numerical calculation and flow visualization of vortex street.. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , <b>1991</b> , 57, 1390-1395		6
68	Unsteady flow and heat transfer in a channel obstructed by a square rod. 3rd Report. Characteristics and mechanism of heat transfer.. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , <b>1991</b> , 57, 1403-1409		6

67	Separation Characteristics of Visco-Elastic Fluid in a Cavity. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 421-428	0.8	6
66	Characteristics of Flow Filed Induced by a Rotationally Reciprocating Plate Impeller. <i>Journal of Chemical Engineering of Japan</i> , <b>2016</b> , 49, 341-349	0.8	6
65	Particle Dispersion/Aggregation Model in a Non-Uniform Shear Flow. <i>Nihon Reoroji Gakkaishi</i> , <b>2013</b> , 41, 75-81	0.8	6
64	Extensional Viscosity of Low Viscous Polymer Solutions Measured by Pressure Drops in Abrupt Contraction Channels. <i>Nihon Reoroji Gakkaishi</i> , <b>2018</b> , 46, 13-22	0.8	5
63	Crystal Growth and Viscosity Behaviors of Ammonium Alum Hydrate Solution with PVA in Shear Flow. <i>Nihon Reoroji Gakkaishi</i> , <b>2014</b> , 42, 219-226	0.8	5
62	Size Characteristics of Liposomes Formed in a Micro-Tube. <i>Journal of Chemical Engineering of Japan</i> , <b>2008</b> , 41, 739-743	0.8	5
61	Progress of Drag-Reducing Technology in the New Century. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , <b>2001</b> , 67, 1305-1310		5
60	Viscosity Prediction of Agglomerative Slurries with Particle Size Distribution.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2000</b> , 26, 423-430	0.4	5
59	Application of a Rotationally Reciprocating Plate Impeller on Crystallization Process. <i>Journal of Chemical Engineering of Japan</i> , <b>2018</b> , 51, 159-165	0.8	5
58	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
57	Onion-Like Structure of Viscoelastic Surfactant Solution Flow Induced by 4-Blade Paddle Impeller in a Vessel. <i>Journal of Chemical Engineering of Japan</i> , <b>2012</b> , 45, 94-101	0.8	4
56	Mixing Characteristics of Newtonian Fluid by a Multi-Holed Static Mixer. <i>Journal of Chemical Engineering of Japan</i> , <b>2006</b> , 39, 807-813	0.8	4
55	Structure Analysis of Drag-Reducing Surfactant Rod-Like Micelles with Fluorescence Probe. <i>Nihon Reoroji Gakkaishi</i> , <b>2006</b> , 34, 17-23	0.8	4
54	Unsteady flow and heat transfer in a channel obstructed by a square rod. 2nd Report. Statistical characteristics and time variation of the flow.. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , <b>1991</b> , 57, 1396-1402		4
53	Numerical Computations on Heat Transfer Characteristics from the Cavity Bottom in Parallel Plates Swept by Viscoelastic Fluid. <i>Journal of Chemical Engineering of Japan</i> , <b>2006</b> , 39, 915-923	0.8	4
52	Biaxial Extensional Characteristics of Drag-Reducing Surfactant Solution. <i>Nihon Reoroji Gakkaishi</i> , <b>2005</b> , 33, 145-150	0.8	4
51	Numerical Simulation of Particle Dispersion in Flow between Coaxial Cylinders under Unsteady Flow Conditions. <i>Nihon Reoroji Gakkaishi</i> , <b>2015</b> , 43, 85-92	0.8	4
50	Viscoelastic Analysis of Dispersion Process of Highly Concentrated Suspension for LiB Cathodes. <i>Journal of the Society of Powder Technology, Japan</i> , <b>2016</b> , 53, 371-379	0.3	4

49	Rheological characterization of metal particle suspension and its relationship with spray-dried granule properties. <i>Powder Technology</i> , <b>2015</b> , 271, 93-99	5.2	3
48	Effect of Shear Strain Applied in Coating and Colloidal Stability on the Drying Process of Latex Dispersions. <i>Journal of Chemical Engineering of Japan</i> , <b>2015</b> , 48, 87-93	0.8	3
47	Effect of Shear Rate and Volume Fraction on Agglomerative Nature of Polymer Latex. <i>Journal of Chemical Engineering of Japan</i> , <b>2009</b> , 42, 71-77	0.8	3
46	Influences of the Inner-Surface Conditions of Circular Tubes on the Heat Transfer in a Surfactant Drag-Reduction System.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2001</b> , 27, 347-351	0.4	3
45	EFFECTS OF FABRICATION CONDITIONS ON SILICA HARD-SHELL MICROCAPSULES CONTAINING PHASE CHANGE MATERIALS <b>2018</b> ,		3
44	Methods of Numerically Analyzing and Visually Measuring Transport Phenomena in Chemical Equipment. Non-Absorbable Gas Diffusing Behavior in the Evaporator-Absorber in an Absorption Chiller.. <i>Kagaku Kogaku Ronbunshu</i> , <b>2001</b> , 27, 581-587	0.4	3
43	Heat Transfer Characteristics in a Cavity of a Symmetric Grooved Channel with Visco-elastic Fluid <b>2002</b> ,		3
42	Mixing Mechanism of a Multi-Holed Static Mixer. <i>Journal of Chemical Engineering of Japan</i> , <b>2008</b> , 41, 139-144	1.4	3
41	Frequency analysis of torque variation of a rotationally reciprocating impeller using newtonian and viscoelastic fluids. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 142, 327-335	5.5	2
40	Ammonia alum hydrate-based phase change materials for effective use of excess exhaust heat from gas engines. <i>International Journal of Refrigeration</i> , <b>2019</b> , 100, 63-71	3.8	2
39	Bulge structure in a cavity swept by a viscoelastic fluid. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 530, 012055	0.3	2
38	Effect of shear strain in coating on the particle packing of gelled-clay particle dispersions during drying <b>2015</b> , 12, 939-948		2
37	Development of Extensional Viscosity Measurement Method on Low Viscos Polymer Solution with an Abrupt Contraction Flow. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , <b>2013</b> , 79, 1264-1268		2
36	Effect of Molar Ratio of Counter-Ions to Cationic Surfactants Treating Trimethylolethane Hydrate Slurries. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 349-354	0.8	2
35	Multi-mode Relaxation Behavior of Drag-reducing Surfactants with Excess Addition of Counter-ions. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	2
34	Optimization of Preparation and Drying Conditions of Titanium Dioxide Slurry for Coating on a Plastic Substrate. <i>Journal of Chemical Engineering of Japan</i> , <b>2007</b> , 40, 973-979	0.8	2
33	Effect of the Composition and Coating Condition on the Structure and Performance of Catalyst Layer of PEFC. <i>Journal of Chemical Engineering of Japan</i> , <b>2007</b> , 40, 808-816	0.8	2
32	Effect of Cetyldimethylbetaine Molecules on Agglomeration and Growth of Ice. <i>Chemistry Letters</i> , <b>2004</b> , 33, 1558-1559	1.7	2

31	Effect of Additives on the Rapid Destruction Process of Particle Aggregates in a Startup Shear Flow. <i>Journal of Chemical Engineering of Japan</i> , <b>2020</b> , 53, 422-430	0.8	2
30	Effect of Carboxymethylcellulose on Agglomeration and Dispersal of Polystyrene Particle Agglomerates with Step-Wise Shear Rate Change. <i>Kagaku Kogaku Ronbunshu</i> , <b>2012</b> , 38, 13-18	0.4	2
29	Effects of the Molar Ratio of Counter-Ions on Flow Characteristics of Surfactant Solutions Sweeping Cavities. <i>Nihon Reoroji Gakkaishi</i> , <b>2016</b> , 44, 143-151	0.8	2
28	Dispersion and Re-aggregation of Particles in a Suspension Flowing in an Abrupt Contraction Channel. <i>Nihon Reoroji Gakkaishi</i> , <b>2016</b> , 44, 153-158	0.8	2
27	Pipe diameter effect on flow and heat transfer characteristics of ammonia alum hydrate slurries with additives. <i>AIChE Journal</i> , <b>2020</b> , 66, e16780	3.6	2
26	Velocity Fields around the Bulge Structure Observed in a Cavity Swept by a Visco-Elastic Fluid. <i>Nihon Reoroji Gakkaishi</i> , <b>2018</b> , 46, 29-36	0.8	2
25	Inverse integral transformation method to derive local viscosity distribution measured by optical tweezers. <i>Soft Matter</i> , <b>2020</b> , 16, 6826-6833	3.6	1
24	The 10th IIR Conference on Phase-Change Materials and Slurries for Refrigeration and Air Conditioning. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 1790-1791	3.8	1
23	Agglomeration of Hydrate Particles in Aqueous Surfactant Solution with Counter-Ion. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 23-28	0.8	1
22	Drag force of polyethyleneglycol in flow measured by a scanning probe microscope. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2.8	1
21	Rheological interpretation of the structural change of LiB cathode slurry during the preparation process. <i>Jcis Open</i> , <b>2022</b> , 5, 100038		1
20	Dispersion Characteristics of a New Motionless Mixer, Bunsankun. <i>Kagaku Kogaku Ronbunshu</i> , <b>2008</b> , 34, 545-550	0.4	1
19	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
18	Heat Storage, Transportation, and Transfer <b>2016</b> , 135-146		1
17	Development of a Liquid Film Model for the Evaporator in an Absorption Chiller. <i>Kagaku Kogaku Ronbunshu</i> , <b>2009</b> , 35, 417-424	0.4	1
16	Flow and Oxygen-Dissolution Characteristics of Microbubbles in a Viscoelastic Fluid. <i>Journal of Chemical Engineering of Japan</i> , <b>2014</b> , 47, 201-206	0.8	1
15	Vortex deformation and turbulent energy of polymer solution in a two-dimensional turbulent flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2020</b> , 285, 104385	2.7	1
14	Dilute Solution and Fine Particle Dispersion Rheologies Applied to Efficient Thermal Energy Transportation. <i>Nihon Reoroji Gakkaishi</i> , <b>2021</b> , 49, 287-293	0.8	1

- 13 Inertio-elastic flow instability in a micro-cavity swept by a visco-elastic fluid. *Transactions of the JSME (in Japanese)*, **2015**, 81, 14-00650-14-00650 0.2
- 12 Numerical Study on Non-Absorbable Gas Control Using an Immersed Plate and Extraction in Evaporator/Absorber of Absorption Chiller. *Journal of Chemical Engineering of Japan*, **2010**, 43, 561-568 0.8
- 11 Numerical Study on the Drawing of Polymer Optical Fibers in Steady State. *Journal of Chemical Engineering of Japan*, **2006**, 39, 790-797 0.8
- 10 Correlation of Fluidity between Solid-Liquid and Solid-Gas Suspensions. *Kagaku Kogaku Ronbunshu*, **2007**, 33, 315-318 0.4
- 9 Outstanding Paper of 2017. *Kagaku Kogaku Ronbunshu*, **2018**, 44, 221-222 0.4
- 8 Statistical Model on Fine Particle Dispersion. *Journal of the Japan Society of Colour Material*, **2019**, 92, 324-328 0
- 7 Dynamic Characteristics of Calcium Chloride/Silica Nano-Holed Microcapsule Composites. *Journal of Chemical Engineering of Japan*, **2020**, 53, 457-462 0.8
- 6 Agglomeration Behavior of Particles in a Molten Polymer in a Steady Shear Flow. *Nihon Reoroji Gakkaishi*, **2009**, 37, 135-141 0.8
- 5 Drying of Coated Slurry in Vapor of Drying Solvent. *Journal of Chemical Engineering of Japan*, **2010**, 43, 892-900 0.8
- 4 Preface to the Special Issue for IWPI 2008. *Journal of Chemical Engineering of Japan*, **2010**, 43, 1 0.8
- 3 S051015 Chaining Effect of Micro-Bubbles in a Visco-Elastic Fluid. *The Proceedings of Mechanical Engineering Congress Japan*, **2013**, 2013, \_S051015-1-\_S051015-5 0
- 2 Effects of channel geometry and physicochemical properties of solutions on stable double emulsion production in planar microfluidic devices having triangular orifices. *AIP Advances*, **2021**, 11, 065219 1.5
- 1 JCEJ Outstanding Paper Award of 2017. *Journal of Chemical Engineering of Japan*, **2018**, 51, 531-532 0.8