Kenjirou Higashi

List of Publications by Citations

113 papers	1,923 citations	25 h-index	36 g-index
122 ext. papers	2,288 ext. citations	5 avg, IF	4.95 L-index

#	Paper	IF	Citations
113	Stabilization of a supersaturated solution of mefenamic acid from a solid dispersion with EUDRAGIT( ) EPO. *Pharmaceutical Research*, **2012**, 29, 2777-91	4.5	102
112	Inhibitory effect of hydroxypropyl methylcellulose acetate succinate on drug recrystallization from a supersaturated solution assessed using nuclear magnetic resonance measurements. *Molecular Pharmaceutics*, **2013**, 10, 3801-11	5.6	80
111	The effect of HPMCAS functional groups on drug crystallization from the supersaturated state and dissolution improvement. *International Journal of Pharmaceutics*, **2014**, 464, 205-13	6.5	76
110	Characterization and evaluation of miconazole salts and cocrystals for improved physicochemical properties. *International Journal of Pharmaceutics*, **2011**, 421, 230-6	6.5	53
109	Mechanistic differences in permeation behavior of supersaturated and solubilized solutions of carbamazepine revealed by nuclear magnetic resonance measurements. *Molecular Pharmaceutics*, **2012**, 9, 3023-33	5.6	52
108	Molecular interaction among probucol/PVP/SDS multicomponent system investigated by solid-state NMR. *Pharmaceutical Research*, **2006**, 23, 2566-74	4.5	48
107	Recent progress of structural study of polymorphic pharmaceutical drugs. *Advanced Drug Delivery Reviews*, **2017**, 117, 71-85	18.5	46
106	Effects of the PEG molecular weight of a PEG-lipid and cholesterol on PEG chain flexibility on liposome surfaces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 474, 63-70	5.1	45
105	The effect of drug and EUDRAGIT S 100 miscibility in solid dispersions on the drug and polymer dissolution rate. *International Journal of Pharmaceutics*, **2015**, 494, 9-16	6.5	44
104	Physicochemical characterization and structural evaluation of a specific 2:1 cocrystal of naproxen-nicotinamide. *Journal of Pharmaceutical Sciences*, **2012**, 101, 3214-21	3.9	43
103	Insights into atomic-level interaction between mefenamic acid and eudragit EPO in a supersaturated solution by high-resolution magic-angle spinning NMR spectroscopy. *Molecular Pharmaceutics*, **2014**, 11, 351-7	5.6	40
102	Incorporation of Salicylic Acid Molecules into the Intermolecular Spaces of Cyclodextrin-Polypseudorotaxane. *Crystal Growth and Design*, **2009**, 9, 4243-4246	3.5	35
101	A Novel Drug-Drug Cocrystal of Levofloxacin and Metacetamol: Reduced Hygroscopicity and Improved Photostability of Levofloxacin. *Journal of Pharmaceutical Sciences*, **2019**, 108, 2383-2390	3.9	33
100	Salicylic acid/gamma-cyclodextrin 2:1 and 4:1 complex formation by sealed-heating method. *Journal of Pharmaceutical Sciences*, **2010**, 99, 4192-200	3.9	33
99	Synergetic Role of Hypromellose and Methacrylic Acid Copolymer in the Dissolution Improvement of Amorphous Solid Dispersions. *Journal of Pharmaceutical Sciences*, **2017**, 106, 1042-1050	3.9	30
98	Direct evaluation of molecular States of piroxicam/poloxamer nanosuspension by suspended-state NMR and Raman spectroscopies. *Molecular Pharmaceutics*, **2015**, 12, 1564-72	5.6	30
97	Nanoparticle formation from probucol/PVP/sodium alkyl sulfate co-ground mixture. *International Journal of Pharmaceutics*, **2009**, 376, 169-75	6.5	30

96	Prediction of recrystallization behavior of troglitazone/polyvinylpyrrolidone solid dispersion by solid-state NMR. *International Journal of Pharmaceutics*, **2010**, 383, 18-23	6.5	30
95	Self-Degradable Lipid-Like Materials Based on Hydrolysis accelerated by the intra-Particle Enrichment of Reactant (HyPER) for Messenger RNA Delivery. *Advanced Functional Materials*, **2020**, 30, 1910575	15.6	28
94	Direct NMR Monitoring of Phase Separation Behavior of Highly Supersaturated Nifedipine Solution Stabilized with Hypromellose Derivatives. *Molecular Pharmaceutics*, **2017**, 14, 2314-2322	5.6	27
93	Crystal Structure Determination of Dimenhydrinate after More than 60 Years: Solving Salt Cocrystal Ambiguity via Solid-State Characterizations and Solubility Study. *Crystal Growth and Design*, **2016**, 16, 5223-5229	3.5	26
92	Molecular-level characterization of probucol nanocrystal in water by in situ solid-state NMR spectroscopy. *International Journal of Pharmaceutics*, **2012**, 423, 571-6	6.5	26
91	An Insight into Different Stabilization Mechanisms of Phenytoin Derivatives Supersaturation by HPMC and PVP. *Journal of Pharmaceutical Sciences*, **2015**, 104, 2574-82	3.9	26
90	Formation of stable hydrophilic C60 nanoparticles by 2-hydroxypropyl-cyclodextrin. *Molecular Pharmaceutics*, **2011**, 8, 1276-84	5.6	26
89	Drug solubilization mechanism of glucosyl stevia by NMR spectroscopy. *International Journal of Pharmaceutics*, **2014**, 465, 255-61	6.5	25
88	Inhibition mechanism of hydroxypropyl methylcellulose acetate succinate on drug crystallization in gastrointestinal fluid and drug permeability from a supersaturated solution. *European Journal of Pharmaceutical Sciences*, **2014**, 62, 293-300	5.1	25
87	Transglycosylated rutin-specific non-surface-active nanostructure affects absorption enhancement of flurbiprofen. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 82, 120-6	5.7	25
86	Drug nanoparticle formulation using ascorbic Acid derivatives. *Journal of Drug Delivery*, **2011**, 2011, 138929	2.9	25
85	Effects of cogrinding with cyclodextrin on the solid state fentanyl. *Journal of Pharmaceutical Sciences*, **2010**, 99, 5019-29	3.9	24
84	DNA-loaded nano-adjuvant formed with a vitamin E-scaffold intracellular environmentally-responsive lipid-like material for cancer immunotherapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 2587-2597	6	24
83	Nano-scale and molecular-level understanding of wet-milled indomethacin/poloxamer 407 nanosuspension with TEM, suspended-state NMR, and Raman measurements. *International Journal of Pharmaceutics*, **2018**, 537, 30-39	6.5	23
82	Formation mechanism of a new carbamazepine/malonic acid cocrystal polymorph. *International Journal of Pharmaceutics*, **2012**, 431, 237-40	6.5	23
81	NMR investigation of a novel excipient, glucosylhesperidin, as a suitable solubilizing agent for poorly water-soluble drugs. *Journal of Pharmaceutical Sciences*, **2011**, 100, 4421-31	3.9	23
80	Characterization of ofloxacin-oxalic acid complex by PXRD, NMR, and THz spectroscopy. *International Journal of Pharmaceutics*, **2009**, 382, 50-5	6.5	23
79	Application of Intermolecular Spaces between Polyethylene Glycol/Cyclodextrin-Polypseudorotaxanes as a Host for Various Guest Drugs. *Crystal Growth and Design*, **2014**, 14, 2773-2781	3.5	22

78	Yellow coloration phenomena of incorporated indomethacin into folded sheet mesoporous materials. *International Journal of Pharmaceutics*, **2012**, 429, 38-45	6.5	22
77	Prednisolone multicomponent nanoparticle preparation by aerosol solvent extraction system. *International Journal of Pharmaceutics*, **2009**, 380, 201-5	6.5	22
76	Ascorbyl dipalmitate/PEG-lipid nanoparticles as a novel carrier for hydrophobic drugs. *International Journal of Pharmaceutics*, **2010**, 387, 236-43	6.5	22
75	Mechanistic insight into the dramatic improvement of probucol dissolution in neutral solutions by solid dispersion in Eudragit E PO with saccharin. *Journal of Pharmacy and Pharmacology*, **2016**, 68, 655-64	4.8	22
74	Mechanism of Enhanced Nifedipine Dissolution by Polymer-Blended Solid Dispersion through Molecular-Level Characterization. *Molecular Pharmaceutics*, **2018**, 15, 4099-4109	5.6	21
73	Encapsulation of poorly water-soluble drugs into organic nanotubes for improving drug dissolution. *International Journal of Pharmaceutics*, **2014**, 469, 190-6	6.5	21
72	Effect of Drug-Polymer Interactions through Hypromellose Acetate Succinate Substituents on the Physical Stability on Solid Dispersions Studied by Fourier-Transform Infrared and Solid-State Nuclear Magnetic Resonance. *Molecular Pharmaceutics*, **2019**, 16, 2785-2794	5.6	20
71	Mechanistic elucidation of formation of drug-rich amorphous nanodroplets by dissolution of the solid dispersion formulation. *International Journal of Pharmaceutics*, **2019**, 561, 82-92	6.5	20
70	Equilibrium state at supersaturated drug concentration achieved by hydroxypropyl methylcellulose acetate succinate: molecular characterization using (1)H NMR technique. *Molecular Pharmaceutics*, **2015**, 12, 1096-104	5.6	20
69	Molecular states of prednisolone dispersed in folded sheet mesoporous silica (FSM-16). *International Journal of Pharmaceutics*, **2009**, 378, 17-22	6.5	20
68	In situ molecular elucidation of drug supersaturation achieved by nano-sizing and amorphization of poorly water-soluble drug. *European Journal of Pharmaceutical Sciences*, **2015**, 77, 79-89	5.1	19
67	Molecular-Level Understanding of the Encapsulation and Dissolution of Poorly Water-Soluble Ibuprofen by Functionalized Organic Nanotubes Using Solid-State NMR Spectroscopy. *Journal of Physical Chemistry B*, **2016**, 120, 4496-507	3.4	19
66	Cryo-TEM and AFM Observation of the Time-Dependent Evolution of Amorphous Probucol Nanoparticles Formed by the Aqueous Dispersion of Ternary Solid Dispersions. *Molecular Pharmaceutics*, **2019**, 16, 2184-2198	5.6	18
65	Morphology and surface States of colloidal probucol nanoparticles evaluated by atomic force microscopy. *Chemical and Pharmaceutical Bulletin*, **2008**, 56, 878-80	1.9	18
64	Molecular Mobility Suppression of Ibuprofen-Rich Amorphous Nanodroplets by HPMC Revealed by NMR Relaxometry and Its Significance with Respect to Crystallization Inhibition. *Molecular Pharmaceutics*, **2019**, 16, 4968-4977	5.6	15
63	Combined effects of the drug distribution and mucus diffusion properties of self-microemulsifying drug delivery systems on the oral absorption of fenofibrate. *International Journal of Pharmaceutics*, **2018**, 546, 263-271	6.5	15
62	Structural Determination of a Novel Polymorph of Sulfathiazole–Oxalic Acid Complex in Powder Form by Solid-State NMR Spectroscopy on the Basis of Crystallographic Structure of Another Polymorph. *Crystal Growth and Design*, **2014**, 14, 4510-4518	3.5	14
61	Structural evaluation of crystalline ternary -cyclodextrin complex. *Journal of Pharmaceutical Sciences*, **2011**, 100, 325-33	3.9	14

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53	Development of nobiletin-methyl hesperidin amorphous solid dispersion: Novel application of methyl hesperidin as an excipient for hot-melt extrusion. *International Journal of Pharmaceutics*, **2019**, 558, 215-224	6.5	10
52	Morphological and Physicochemical Evaluation of Two Distinct Glibenclamide/Hypromellose Amorphous Nanoparticles Prepared by the Antisolvent Method. *Molecular Pharmaceutics*, **2018**, 15, 1587-1597	5.6	10
51	Mechanism of nanoparticle formation from ternary coground phenytoin and its derivatives. *Journal of Pharmaceutical Sciences*, **2012**, 101, 3413-24	3.9	10
50	Determination of Nonspherical Morphology of Doxorubicin-Loaded Liposomes by Atomic Force Microscopy. *Journal of Pharmaceutical Sciences*, **2018**, 107, 717-726	3.9	10
49	Molecular-level elucidation of saccharin-assisted rapid dissolution and high supersaturation level of drug from Eudragit E solid dispersion. *International Journal of Pharmaceutics*, **2018**, 538, 57-64	6.5	9
48	Stabilization mechanism of limaprost in solid dosage form. *International Journal of Pharmaceutics*, **2007**, 338, 1-6	6.5	9
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46	Enhanced skin permeation of piroxicam and pranoprofen induced from nanoparticles dispersed in propylene glycol aqueous solution. *Journal of Drug Delivery Science and Technology*, **2012**, 22, 131-137	4.5	8
45	Unique indomethacin nanoparticles formation by cogrinding with dextrin under defined moisture conditions. *Powder Technology*, **2012**, 221, 213-219	5.2	7
44	Effect of drug-coformer interactions on drug dissolution from a coamorphous in mesoporous silica. *International Journal of Pharmaceutics*, **2021**, 600, 120492	6.5	7
43	Solid-Phase Mediated Methodology To Incorporate Drug into Intermolecular Spaces of Cyclodextrin Columns in Polyethylene Glycol/Cyclodextrin-Polypseudorotaxanes by Cogrinding and Subsequent Heating. *Crystal Growth and Design*, **2017**, 17, 1055-1068	3.5	6

42	Composition-dependent structural changes and antitumor activity of ASC-DP/DSPE-PEG nanoparticles. *European Journal of Pharmaceutical Sciences*, **2017**, 99, 24-31	5.1	6
41	Cancer-Type OATP1B3 mRNA in Extracellular Vesicles as a Promising Candidate for a Serum-Based Colorectal Cancer Biomarker. *Biological and Pharmaceutical Bulletin*, **2018**, 41, 445-449	2.3	6
40	Poly-ion Complex of Chondroitin Sulfate and Spermine and Its Effect on Oral Chondroitin Sulfate Bioavailability. *Chemical and Pharmaceutical Bulletin*, **2016**, 64, 390-8	1.9	6
39	Optimization and characterization of direct coating for ibuprofen particles using a composite fluidized bed. *Advanced Powder Technology*, **2012**, 23, 40-45	4.6	6
38	Correlation between drug dissolution and resistance to water-induced phase separation in solid dispersion formulations revealed by solid-state NMR spectroscopy. *International Journal of Pharmaceutics*, **2020**, 577, 119086	6.5	6
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34	Intermolecular Interactions between Drugs and Aminoalkyl Methacrylate Copolymer in Solution to Enhance the Concentration of Poorly Water-Soluble Drugs. *Chemical and Pharmaceutical Bulletin*, **2019**, 67, 906-914	1.9	5
33	Application of solid-state C relaxation time to prediction of the recrystallization inhibition strength of polymers on amorphous felodipine at low polymer loading. *International Journal of Pharmaceutics*, **2020**, 581, 119300	6.5	5
32	Nanocrystal formulation of poorly water-soluble drug. *Drug Delivery System*, **2015**, 30, 92-99	0	5
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30	Adsorption state of naphthoic acids on folded sheets mesoporous materials with different pore sizes. *Journal of Drug Delivery Science and Technology*, **2009**, 19, 401-404	4.5	5
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25	Characterization of cromolyn sodium hydrates and its formulation by (23) Na-multiquantum and magic-angle spinning nuclear magnetic resonance spectroscopy. *Journal of Pharmaceutical Sciences*, **2013**, 102, 2738-47	3.9	3

24	Characterization of a riboflavin non-aqueous nanosuspension prepared by bead milling for cutaneous application. *Chemical and Pharmaceutical Bulletin*, **2015**, 63, 88-94	1.9	3
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22	Discrimination of paper-based kraft tapes using Fourier transform of transmitted light images. *Forensic Science International*, **2012**, 220, 59-66	2.6	3
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19	Amorphous Drug Solubility and Maximum Free Drug Concentrations in Cyclodextrin Solutions: A Quantitative Study Using NMR Diffusometry. *Molecular Pharmaceutics*, **2021**, 18, 2764-2776	5.6	3
18	An Insight into Stabilization Mechanism of a Solid Dispersion of Indomethacin/Partially Hydrolyzed Polyvinyl Alcohol Prepared by Hot-Melt Extrusion. *Chemical and Pharmaceutical Bulletin*, **2018**, 66, 859-865	1.9	3
17	Structural evaluation of probucol nanoparticles in water by atomic force microscopy. *International Journal of Pharmaceutics*, **2012**, 427, 365-71	6.5	2
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13	Morphological changes of doxorubicin-loaded liposomes observed by atomic force microscopy. *Asian Journal of Pharmaceutical Sciences*, **2016**, 11, 60-61	9	1
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