

Makoto Otsuka

List of Publications by Year in descending order

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309
papers

6,711
citations

71061

41
h-index

118793

62
g-index

317
all docs

317
docs citations

317
times ranked

5271
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc-releasing calcium phosphate for stimulating bone formation. <i>Materials Science and Engineering C</i> , 2002, 22, 21-25.	3.8	244
2	Relationships Among Carbonated Apatite Solubility, Crystallite Size, and Microstrain Parameters. <i>Calcified Tissue International</i> , 1999, 64, 437-449.	1.5	175
3	Physicochemical characterization of indomethacin polymorphs and the transformation kinetics in ethanol. <i>Chemical and Pharmaceutical Bulletin</i> , 1985, 33, 3447-3455.	0.6	151
4	Zinc-containing tricalcium phosphate and related materials for promoting bone formation. <i>Current Applied Physics</i> , 2005, 5, 402-406.	1.1	122
5	Self-Setting Hydroxyapatite Cement: A Novel Skeletal Drug-Delivery System for Antibiotics. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 529-531.	1.6	120
6	Comparative particle size determination of phenacetin bulk powder by using Kubelka-Munk theory and principal component regression analysis based on near-infrared spectroscopy. <i>Powder Technology</i> , 2004, 141, 244-250.	2.1	111
7	Effect of environmental temperature on polymorphic solid-state transformation of indomethacin during grinding. <i>Chemical and Pharmaceutical Bulletin</i> , 1986, 34, 1784-1793.	0.6	104
8	Dissolution process analysis using model-free Noyes-Whitney integral equation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 227-231.	2.5	102
9	Combined Effects of Laser Irradiation and Chemical Inhibitors on the Dissolution of Dental Enamel. <i>Caries Research</i> , 1992, 26, 333-339.	0.9	92
10	Effect of Seed Crystals on Solid-State Transformation of Polymorphs of Chloramphenicol Palmitate During Grinding. <i>Journal of Pharmaceutical Sciences</i> , 1986, 75, 506-511.	1.6	72
11	Initial Dissolution Rate Studies on Dental Enamel after CO ₂ Laser Irradiation. <i>Journal of Dental Research</i> , 1992, 71, 1389-1398.	2.5	72
12	Infrared spectroscopic study of lipid interaction in stratum corneum treated with transdermal absorption enhancers. <i>International Journal of Pharmaceutics</i> , 2010, 389, 18-23.	2.6	69
13	A Novel Skeletal Drug Delivery System Using a Self-Setting Calcium Phosphate Cement. 5 Drug Release Behavior from a Heterogeneous Drug-Loaded Cement Containing an Anticancer Drug. <i>Journal of Pharmaceutical Sciences</i> , 1994, 83, 1565-1568.	1.6	68
14	Effect of Carbonate Content and Crystallinity on the Metastable Equilibrium Solubility Behavior of Carbonated Apatites. <i>Journal of Colloid and Interface Science</i> , 1996, 179, 608-617.	5.0	66
15	Effect of Polymorphic Transformation During the Extrusion-Granulation Process on the Pharmaceutical Properties of Carbamazepine Granules. <i>Chemical and Pharmaceutical Bulletin</i> , 1997, 45, 894-898.	0.6	66
16	A kinetic study of the crystallization process of noncrystalline indomethacin under isothermal conditions. <i>Chemical and Pharmaceutical Bulletin</i> , 1988, 36, 4026-4032.	0.6	65
17	A novel skeletal drug delivery system for anti-bacterial drugs using self-setting hydroxyapatite cement. <i>Chemical and Pharmaceutical Bulletin</i> , 1990, 38, 3500-3502.	0.6	63
18	Effect of particle size of metastable calcium phosphates on mechanical strength of a novel self-setting bioactive calcium phosphate cement. <i>Journal of Biomedical Materials Research Part B</i> , 1995, 29, 25-32.	3.0	63

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19	Effects of grinding on the physicochemical properties of cephalexin powder.. Chemical and Pharmaceutical Bulletin, 1984, 32, 1071-1079.	0.6	61
20	A Novel Skeletal Drug-Delivery System Using Self-Setting Calcium Phosphate Cement. 3. Physicochemical Properties and Drug-Release Rate of Bovine Insulin and Bovine Albumin. Journal of Pharmaceutical Sciences, 1994, 83, 255-258.	1.6	61
21	Effect of grinding on the transformations of polymorphs of chloramphenicol palmitate.. Chemical and Pharmaceutical Bulletin, 1985, 33, 1660-1668.	0.6	60
22	Determination of indomethacin polymorphic contents by chemometric near-infrared spectroscopy and conventional powder X-ray diffractometry. Analyst, The, 2001, 126, 1578-1582.	1.7	59
23	Effect of grinding on the degree of crystallinity of cephalexin powder.. Chemical and Pharmaceutical Bulletin, 1983, 31, 4489-4495.	0.6	56
24	Self-modeling curve resolution (SMCR) analysis of near-infrared (NIR) imaging data of pharmaceutical tablets. Analytica Chimica Acta, 2008, 619, 81-86.	2.6	56
25	Polymorphic Transformation of Indomethacin Under High Pressures**The previous affiliation when this study was done, Organic Synthesis Research Laboratory, Sumitomo Chemical Co., Ltd. 3-1-98, Kasugade-naka, Konohana-ku, Osaka 554-8558, Japan.. Journal of Pharmaceutical Sciences, 2006, 95, 689-700.	1.6	55
26	A Novel Skeletal Drug-Delivery System Using Self-Setting Calcium Phosphate Cement. 4. Effects of the Mixing Solution Volume on the Drug-Release Rate of Heterogeneous Aspirin-Loaded Cement. Journal of Pharmaceutical Sciences, 1994, 83, 259-263.	1.6	54
27	A Novel Skeletal Drug Delivery System Using Self-Setting Calcium Phosphate Cement. 2. Physicochemical Properties and Drug Release Rate of the Cement-Containing Indomethacin. Journal of Pharmaceutical Sciences, 1994, 83, 611-615.	1.6	54
28	Effect of Relative Humidity on the Photocatalytic Activity of Titanium Dioxide and Photostability of Famotidine. Journal of Pharmaceutical Sciences, 2004, 93, 582-589.	1.6	54
29	Prediction of Tablet Hardness Based on Near Infrared Spectra of Raw Mixed Powders by Chemometrics. Journal of Pharmaceutical Sciences, 2006, 95, 1425-1433.	1.6	53
30	Chemoinformetrical Evaluation of Dissolution Property of Indomethacin Tablets by Near-Infrared Spectroscopy. Journal of Pharmaceutical Sciences, 2007, 96, 788-801.	1.6	53
31	Kinetic study of the transformation of mefenamic acid polymorphs in various solvents and under high humidity conditions. International Journal of Pharmaceutics, 2006, 321, 18-26.	2.6	52
32	Efficacy of the Injectable Calcium Phosphate Ceramics Suspensions Containing Magnesium, Zinc and Fluoride on the Bone Mineral Deficiency in Ovariectomized Rats. Journal of Pharmaceutical Sciences, 2008, 97, 421-432.	1.6	52
33	The physicochemical properties of a spray dried glutinous rice starch biopolymer. Colloids and Surfaces B: Biointerfaces, 2010, 78, 30-35.	2.5	49
34	Effect of Surface Characteristics of Theophylline Anhydrate Powder on Hygroscopic Stability. Journal of Pharmacy and Pharmacology, 2011, 42, 606-610.	1.2	48
35	Effect of binders on polymorphic transformation kinetics of carbamazepine in aqueous solution. Colloids and Surfaces B: Biointerfaces, 2000, 17, 145-152.	2.5	46
36	Evaluation of the Microcrystallinity of a Drug Substance, Indomethacin, in a Pharmaceutical Model Tablet by Chemometric FT-Raman Spectroscopy. Pharmaceutical Research, 2005, 22, 1350-1357.	1.7	46

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37	Effect of Polymorphic Forms of Bulk Powders on Pharmaceutical Properties of Carbamazepine Granules.. Chemical and Pharmaceutical Bulletin, 1999, 47, 852-856.	0.6	45
38	Comparative evaluation of the degree of indomethacin crystallinity by chemoinfometrical fourie-transformed near-infrared spectroscopy and conventional powder X-ray diffractiometry. AAPS PharmSci, 2000, 2, 80-87.	1.3	44
39	Effect of controlled zinc release on bone mineral density from injectable Zn-containing β -tricalcium phosphate suspension in zinc-deficient diseased rats. Journal of Biomedical Materials Research Part B, 2004, 69A, 552-560.	3.0	44
40	Combined Effects of Laser Irradiation/Solution Fluoride Ion on Enamel Demineralization. Photomedicine and Laser Surgery, 1998, 16, 93-105.	1.1	43
41	Quantitative Evaluation of Mefenamic Acid Polymorphs by Terahertz-Chemometrics. Journal of Pharmaceutical Sciences, 2010, 99, 4048-4053.	1.6	42
42	Effects of lubricant-mixing time on prolongation of dissolution time and its prediction by measuring near infrared spectra from tablets. Drug Development and Industrial Pharmacy, 2012, 38, 412-419.	0.9	42
43	A Novel Skeletal Drug Delivery System Using Self-Setting Calcium Phosphate Cement. 9: Effects of the Mixing Solution Volume on Anticancer Drug Release from Homogeneous Drug-Loaded Cement. Journal of Pharmaceutical Sciences, 1995, 84, 733-736.	1.6	41
44	Comparative determination of polymorphs of indomethacin in powders and tablets by chemometrical near-infrared spectroscopy and X-ray powder diffractometry. AAPS PharmSciTech, 2003, 4, 58-69.	1.5	41
45	Theoretical Analysis of Tablet Hardness Prediction Using Chemoinformetric Near-Infrared Spectroscopy. Analytical Sciences, 2007, 23, 857-862.	0.8	41
46	Evaluation of photostability of solid-state dimethyl 1,4-dihydro-2,6-dimethyl-4-(2-nitro-phenyl)-3,5-pyridinedicarboxylate by using Fourier-transformed reflection-absorption infrared spectroscopy. International Journal of Pharmaceutics, 1999, 184, 35-43.	2.6	40
47	Calcium level-responsivein-vitro zinc release from zinc containing tricalcium phosphate (ZnTCP). Journal of Biomedical Materials Research Part B, 2000, 52, 819-824.	3.0	40
48	Chemometric evaluation of pharmaceutical properties of antipyrine granules by near-infrared spectroscopy. AAPS PharmSciTech, 2003, 4, 142-148.	1.5	40
49	Effects of Temperature and Relative Humidity on the Solid-State Chemical Stability of Ranitidine Hydrochloride. Journal of Pharmaceutical Sciences, 1993, 82, 601-604.	1.6	39
50	A novel skeletal drug delivery system using self-setting calcium phosphate cement VIII: the relationship between in vitro and in vivo drug release from indomethacin-containing cement. Journal of Controlled Release, 1997, 43, 115-122.	4.8	39
51	Effect of environmental humidity on the transformation pathway of carbamazepine polymorphic modifications during grinding. Colloids and Surfaces B: Biointerfaces, 1999, 13, 263-273.	2.5	39
52	Solid dosage form preparations from oily medicines and their drug release. Effect of degree of surface-modification of silica gel on the drug release from phytonadione-loaded silica gels. Journal of Controlled Release, 2000, 67, 369-384.	4.8	38
53	Evaluation of relationship between molecular behaviour and mechanical strength of pullulan films. International Journal of Pharmaceutics, 2009, 374, 33-38.	2.6	38
54	Sustained release of 17β -estradiol from poly (lactide-co-glycolide) microspheres in vitro and in vivo. Colloids and Surfaces B: Biointerfaces, 2000, 17, 153-165.	2.5	37

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55	Controlled Release of Simvastatin from Biomimetic β -TCP Drug Delivery System. PLoS ONE, 2013, 8, e54676.	1.1	37
56	Hygroscopic stability and dissolution properties of spray-dried solid dispersions of furosemide with eudragit. Journal of Pharmaceutical Sciences, 1993, 82, 32-38.	1.6	36
57	Physicochemical stability of phenobarbital polymorphs at various levels of humidity and temperature. Pharmaceutical Research, 1993, 10, 577-582.	1.7	36
58	Effect of geometrical cement size on in vitro and in vivo indomethacin release from self-setting apatite cement. Journal of Controlled Release, 1998, 52, 281-289.	4.8	36
59	Metastable Equilibrium Solubility Behavior of Bone Mineral. Calcified Tissue International, 1999, 64, 329-339.	1.5	36
60	Metastable Equilibrium Solubility Distribution of Carbonated Apatite as a Function of Solution Composition. Journal of Colloid and Interface Science, 1999, 218, 57-67.	5.0	36
61	NIR spectroscopic study of the dissolution process in pharmaceutical tablets. Vibrational Spectroscopy, 2011, 57, 275-281.	1.2	36
62	Bioresorbable zinc hydroxyapatite guided bone regeneration membrane for bone regeneration. Clinical Oral Implants Research, 2016, 27, 354-360.	1.9	35
63	A Novel Skeletal Drug Delivery System Using Self-Setting Calcium Phosphate Cement. 7. Effect of Biological Factors on Indomethacin Release from the Cement Loaded on Bovine Bone. Journal of Pharmaceutical Sciences, 1994, 83, 1569-1573.	1.6	34
64	Bone Regeneration of Rat Tibial Defect by Zinc-Tricalcium Phosphate (Zn-TCP) Synthesized from Porous Foraminifera Carbonate Macrospheres. Marine Drugs, 2013, 11, 5148-5158.	2.2	34
65	Detection of Impurities in Organic Crystals by High-Accuracy Terahertz Absorption Spectroscopy. Analytical Chemistry, 2018, 90, 1677-1682.	3.2	34
66	Metastable Equilibrium Solubility Behavior of Carbonated Apatites. Journal of Colloid and Interface Science, 1994, 167, 414-423.	5.0	33
67	Isomerization of Lactose in Solid-state by Mechanical Stress During Grinding. Journal of Pharmacy and Pharmacology, 2011, 43, 148-153.	1.2	32
68	Non-destructive prediction of enteric coating layer thickness and drug dissolution rate by near-infrared spectroscopy and X-ray computed tomography. International Journal of Pharmaceutics, 2017, 525, 282-290.	2.6	31
69	Hygroscopicity and solubility of noncrystalline cephalexin.. Chemical and Pharmaceutical Bulletin, 1983, 31, 230-236.	0.6	30
70	Effects of lubricant mixing on compression properties of various kinds of direct compression excipients and physical properties of the tablets. Advanced Powder Technology, 2004, 15, 477-493.	2.0	30
71	A novel white film for pharmaceutical coating formed by interaction of calcium lactate pentahydrate with hydroxypropyl methylcellulose. International Journal of Pharmaceutics, 2006, 317, 120-126.	2.6	30
72	Raman imaging analysis of pharmaceutical tablets by two-dimensional (2D) correlation spectroscopy. Vibrational Spectroscopy, 2009, 51, 125-131.	1.2	30

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73	Effect of tableting on the degree of crystallinity and on the dehydration and decomposition points of cephalexin crystalline powder.. Chemical and Pharmaceutical Bulletin, 1985, 33, 802-809.	0.6	29
74	Effect of Laser Irradiation on the Dissolution Kinetics of Hydroxyapatite Preparations. Journal of Pharmaceutical Sciences, 1990, 79, 510-515.	1.6	29
75	Physicochemical stability of nitrofurantoin anhydrate and monohydrate under various temperature and humidity conditions. Pharmaceutical Research, 1991, 08, 1066-1068.	1.7	29
76	Verification of the mixing processes of the active pharmaceutical ingredient, excipient and lubricant in a pharmaceutical formulation using a resonant acoustic mixing technology. RSC Advances, 2016, 6, 87049-87057.	1.7	29
77	Effect of Compression Temperature on the Consolidation Mechanism of Chlorpropamide Polymorphs. Journal of Pharmaceutical Sciences, 1995, 84, 614-618.	1.6	28
78	Heat-treatment-induced Reduction in the Apparent Solubility of Human Dental Enamel. Journal of Dental Research, 1994, 73, 1848-1852.	2.5	27
79	Evaluation of photostability of solid-state nifedipine hydrochloride polymorphs by using Fourier-transformed reflection-â€“absorption infrared spectroscopy â€“ effect of grinding on the photostability of crystal form. International Journal of Pharmaceutics, 2004, 286, 1-8.	2.6	27
80	Preparation of calcium phosphate nanocapsules including simvastatin/deoxycholic acid assembly, and their therapeutic effect in osteoporosis model mice. Journal of Pharmacy and Pharmacology, 2013, 65, 494-502.	1.2	27
81	Real-time monitoring of the tablet-coating process by near-infrared spectroscopy - Effects of coating polymer concentrations on pharmaceutical properties of tablets. Journal of Drug Delivery Science and Technology, 2018, 46, 111-121.	1.4	27
82	Hydroxyapatite formation on porous ceramics of alpha-tricalcium phosphate in a simulated body fluid. Journal of Materials Science: Materials in Medicine, 2010, 21, 1921-1926.	1.7	26
83	Effect of geometrical structure on drug release rate of a three-dimensionally perforated porous apatite/collagen composite cement. Journal of Pharmaceutical Sciences, 2010, 99, 286-292.	1.6	26
84	Effect of Cogrounding with Various Kinds of Surfactants on the Dissolution Behavior of Phenytoin. Journal of Pharmaceutical Sciences, 1995, 84, 1434-1437.	1.6	25
85	Drug release from a novel self-setting bioactive glass bone cement containing cephalexin and its physicochemical properties. Journal of Biomedical Materials Research Part B, 1995, 29, 33-38.	3.0	25
86	Prediction of tablet properties based on near infrared spectra of raw mixed powders by chemometrics: Scale-up factor of blending and tableting processes. Journal of Pharmaceutical Sciences, 2009, 98, 4296-4305.	1.6	25
87	Preparation of injectable auto-forming alginate gel containing simvastatin with amorphous calcium phosphate as a controlled release medium and their therapeutic effect in osteoporosis model rat. Journal of Materials Science: Materials in Medicine, 2012, 23, 1291-1297.	1.7	25
88	The Therapeutic Effect on Bone Mineral Formation from Biomimetic Zinc Containing Tricalcium Phosphate (ZnTCP) in Zinc-Deficient Osteoporotic Mice. PLoS ONE, 2013, 8, e71821.	1.1	25
89	Strontium- and magnesium-enriched biomimetic< i>< b>Î²< /b>< /i>-TCP macrospheres with potential for bone tissue morphogenesis. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 771-778.	1.3	25
90	Physicochemical Properties of Nitrofurantoin Anhydrate and Monohydrate and Their Dissolution.. Chemical and Pharmaceutical Bulletin, 1991, 39, 2667-2670.	0.6	24

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91	Real-time release monitoring for water content and mean particle size of granules in lab-sized fluid-bed granulator by near-infrared spectroscopy. <i>RSC Advances</i> , 2014, 4, 17461-17468.	1.7	24
92	The effectiveness of the controlled release of simvastatin from β -TCP macrosphere in the treatment of OVX mice. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, E195-E203.	1.3	24
93	Development and effect of a sustainable and controllable simvastatin-releasing device based on PLGA microspheres/carbonate apatite cement composite: In vitro evaluation for use as a drug delivery system from bone-like biomaterial. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 37, 74-80.	1.4	24
94	Effect of environmental temperature on the polymorphic transformation of phenylbutazone during grinding. <i>Chemical and Pharmaceutical Bulletin</i> , 1988, 36, 1074-1085.	0.6	23
95	Effects of Mixer and Mixing Time on the Pharmaceutical Properties of Theophylline Tablets Containing Various Kinds of Lactose as Diluents. <i>Drug Development and Industrial Pharmacy</i> , 1993, 19, 333-348.	0.9	23
96	Effect of Amount of Added Water During Extrusion-Spheronization Process on Pharmaceutical Properties of Granules. <i>Drug Development and Industrial Pharmacy</i> , 1994, 20, 2977-2992.	0.9	23
97	The effect of humidity on dehydration behavior of nitrofurantoin monohydrate studied by humidity controlled simultaneous instrument for X-ray Diffractometry and Differential Scanning Calorimetry (XRD-DSC). <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 25, 281-291.	2.5	23
98	Hydrolysis and cytocompatibility of zinc-containing β -tricalcium phosphate powder. <i>Materials Science and Engineering C</i> , 2004, 24, 709-715.	3.8	23
99	Effect of nanostructure on biodegradation behaviors of self-setting apatite/collagen composite cements containing vitamin K2 in rats. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 79B, 176-184.	1.6	23
100	Multivariate analysis of DSC-XRD simultaneous measurement data: a study of multistage crystalline structure changes in a linear poly(ethylene imine) thin film. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 367-376.	1.9	23
101	Effect of biomimetic zinc-containing tricalcium phosphate (Zn-TCP) on the growth and osteogenic differentiation of mesenchymal stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 852-858.	1.3	23
102	Effect of carbon dioxide on self-setting apatite cement formation from tetracalcium phosphate and dicalcium phosphate dihydrate; ATR-IR and chemoinformatics analysis. <i>Colloid and Polymer Science</i> , 2015, 293, 2781-2788.	1.0	23
103	Modeling of feed-forward control using the partial least squares regression method in the tablet compression process. <i>International Journal of Pharmaceutics</i> , 2017, 524, 407-413.	2.6	23
104	Characterization of Poly-Amorphous Indomethacin by Terahertz Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 953-962.	1.2	22
105	Application of spray freeze drying to theophylline-oxalic acid cocrystal engineering for inhaled dry powder technology. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 179-187.	0.9	22
106	Antibiotic delivery system using bioactive bone cement consisting of Bis-GMA/TEGDMA resin and bioactive glass ceramics. <i>Biomaterials</i> , 1997, 18, 1559-1564.	5.7	22
107	The Effect of Humidity on Hydration Kinetics of Mixtures of Nitrofurantoin Anhydride and Diluents. <i>Chemical and Pharmaceutical Bulletin</i> , 1994, 42, 156-159.	0.6	21
108	Effects of solid-state reaction between paracetamol and cloperastine hydrochloride on the pharmaceutical properties of their preparations. <i>International Journal of Pharmaceutics</i> , 2007, 335, 12-19.	2.6	21

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109	Oestradiol Release from Self-setting Apatitic Bone Cement Responsive to Plasma-calcium Level in Ovariectomized Rats, and its Physicochemical Mechanism. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 49, 1182-1188.	1.2	21
110	Real-time Monitoring of Changes of Adsorbed and Crystalline Water Contents in Tablet Formulation Powder Containing Theophylline Anhydrate at Various Temperatures During Agitated Granulation by Near-infrared Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2924-2936.	1.6	21
111	Dehydration of cephalixin hydrates.. <i>Chemical and Pharmaceutical Bulletin</i> , 1983, 31, 1021-1029.	0.6	20
112	The dehydration kinetics of theophylline monohydrate powder and tablet.. <i>Chemical and Pharmaceutical Bulletin</i> , 1988, 36, 4914-4920.	0.6	20
113	Rotating-disk dissolution kinetics of nitrofurantoin anhydrate and monohydrate at various temperatures. <i>Pharmaceutical Research</i> , 1992, 09, 307-311.	1.7	20
114	Quantitative Relationship between Carbonated Apatite Metastable Equilibrium Solubility and Dissolution Kinetics. <i>Journal of Colloid and Interface Science</i> , 1994, 168, 356-372.	5.0	20
115	A comparative study of the metastable equilibrium solubility behavior of high-crystallinity and low-crystallinity carbonated apatites using pH and solution strontium as independent variables. <i>Journal of Colloid and Interface Science</i> , 2005, 289, 14-25.	5.0	20
116	Characterization of dehydration and hydration behavior of calcium lactate pentahydrate and its anhydrate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 46, 135-141.	2.5	20
117	Two-dimensional correlation spectroscopy as a tool for analyzing vibrational images. <i>Vibrational Spectroscopy</i> , 2005, 37, 217-224.	1.2	20
118	Effects of bead size and polymerization in PMMA bone cement on vancomycin release. <i>Bio-Medical Materials and Engineering</i> , 2008, 18, 377-385.	0.4	20
119	Nondestructive prediction of the drug content of an aspirin suppository by near-infrared spectroscopy. <i>Drug Development and Industrial Pharmacy</i> , 2010, 36, 839-844.	0.9	20
120	Controlled drug release of highly water-soluble pentoxifylline from time-limit disintegration-type wax matrix tablets. <i>Pharmaceutical Research</i> , 1994, 11, 351-352.	1.7	19
121	Effect of temperature and kneading solution on polymorphic transformation of mefenamic acid during granulation. <i>Solid State Ionics</i> , 2004, 172, 451-453.	1.3	19
122	An Accurate Quantitative Analysis of Polymorphic Content by Chemometric X-ray Powder Diffraction. <i>Analytical Sciences</i> , 2008, 24, 451-457.	0.8	19
123	Non-invasive and rapid analysis for observation of internal structure of press-coated tablet using X-ray computed tomography. <i>Drug Development and Industrial Pharmacy</i> , 2009, 35, 678-682.	0.9	19
124	Bone cell activity responsive drug release from biodegradable apatite/collagen nano-composite cementsâ€”In vitro dissolution medium responsive vitamin K2 release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 85, 338-342.	2.5	19
125	Effect of Geometric Factors on Hydration Kinetics of Theophylline Anhydrate Tablets. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 1189-1193.	1.6	18
126	Long-term therapeutic effect of novel calcium phosphate-based compounds injected in ovariectomized rats. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 90B, 229-237.	1.6	18

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127	Preparation of core-shell poly(L-lactic) acid-nanocrystalline apatite hollow microspheres for bone repairing applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2659-2669.	1.7	18
128	In-line and Real-time Monitoring of Resonant Acoustic Mixing by Near-infrared Spectroscopy Combined with Chemometric Technology for Process Analytical Technology Applications in Pharmaceutical Powder Blending Systems. <i>Analytical Sciences</i> , 2017, 33, 41-46.	0.8	18
129	MCR-ALS analysis of IR spectroscopy and XRD for the investigation of ibuprofen - nicotinamide cocrystal formation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 221, 117142.	2.0	18
130	The interaction between water and cephalexin in the crystalline and noncrystalline states.. <i>Chemical and Pharmaceutical Bulletin</i> , 1984, 32, 4551-4559.	0.6	17
131	A novel skeletal drug delivery system using self-setting bioactive glass bone cement. III: the in vitro drug release from bone cement containing indomethacin and its physicochemical properties. <i>Journal of Controlled Release</i> , 1994, 31, 111-119.	4.8	16
132	Mechanochemical Synthesis of Bioactive Material: Effect of Environmental Conditions on the Phase Transformation of Calcium Phosphates During Grinding. <i>Bio-Medical Materials and Engineering</i> , 1994, 4, 357-362.	0.4	16
133	Analysis of the surface structure of DNA/polycation/hyaluronic acid ternary complex by Raman microscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 268-272.	1.4	16
134	Effects of Tableting Pressure on Hydration Kinetics of Theophylline Anhydrate Tablets. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 43, 226-231.	1.2	16
135	Delay effect of magnesium stearate on tablet dissolution in acidic medium. <i>International Journal of Pharmaceutics</i> , 2016, 511, 757-764.	2.6	16
136	Enhancement of mineralization on porous titanium surface by filling with nano-hydroxyapatite particles fabricated with a vacuum spray method. <i>Materials Science and Engineering C</i> , 2020, 111, 110772.	3.8	16
137	Dissolution improvement of water-insoluble glybuzole by co-grinding and co-melting with surfactants and their physicochemical properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998, 10, 217-226.	2.5	15
138	Effect of surface modification on hydration kinetics of carbamazepine anhydrate using isothermal microcalorimetry. <i>AAPS PharmSciTech</i> , 2003, 4, 33-41.	1.5	15
139	A Novel Standard Sample Powder Preparation Method for Quantitative Analysis of Polymorphs. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 1013-1023.	1.6	15
140	Chemoinformetrical evaluation of granule and tablet properties of pharmaceutical preparations by near-infrared spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 82, 109-114.	1.8	15
141	Effect of Zinc-Containing .BETA.-Tricalcium Phosphate Nano Particles Injection on Jawbone Mineral Density and Mechanical Strength of Osteoporosis Model Rats. <i>Biological and Pharmaceutical Bulletin</i> , 2011, 34, 1215-1218.	0.6	15
142	Strontium hydroxyapatite <i>in situ</i> gel-forming system - a new approach for minimally invasive bone augmentation. <i>Clinical Oral Implants Research</i> , 2015, 26, 581-585.	1.9	15
143	Kinetics Study of Cocrystal Formation Between Indomethacin and Saccharin Using High-Shear Granulation With In Situ Raman Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 3201-3208.	1.6	15
144	Compression properties of cephalexin powder and physical properties of the tablet.. <i>Chemical and Pharmaceutical Bulletin</i> , 1984, 32, 4986-4993.	0.6	14

#	ARTICLE	IF	CITATIONS
145	Comparative Evaluation of Mean Particle Size of Bulk Drug Powder in Pharmaceutical Preparations by Fourier-Transformed Powder Diffuse Reflectance Infrared Spectroscopy and Dissolution Kinetics. <i>Journal of Pharmaceutical Sciences</i> , 1996, 85, 112-116.	1.6	14
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