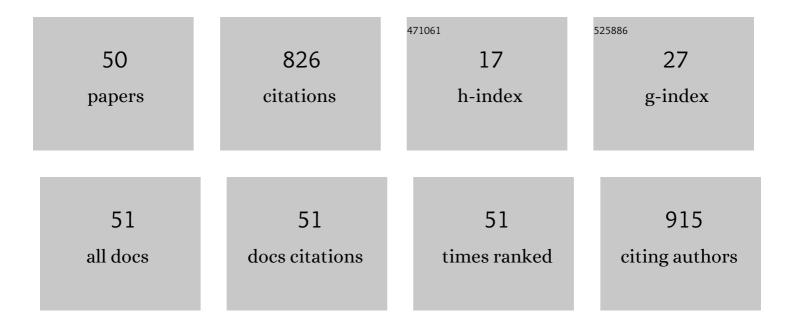
## Peter J Skrdla

List of Publications by Year in descending order

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DETED I SKONIA

#	Article	IF	CITATIONS
1	Practical comparison of 2.7μm fused-core silica particles and porous sub-2μm particles for fast separations in pharmaceutical process development. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 131-137.	1.4	78
2	Semiempirical Equations for Modeling Solid-State Kinetics Based on a Maxwellâ`Boltzmann Distribution of Activation Energies:Â Applications to a Polymorphic Transformation under Crystallization Slurry Conditions and to the Thermal Decomposition of AgMnO4Crystals. Journal of Physical Chemistry B, 2005, 109, 10611-10619.	1.2	59
3	Preparation of Polyetherol-Appended Sulfur Porphyrazines and Investigations of Peripheral Metal Ion Binding in Polar Solvents. Inorganic Chemistry, 2000, 39, 3963-3969.	1.9	56
4	Solâ^'Gel-Based, Planar Waveguide Sensor for Water Vapor. Analytical Chemistry, 1999, 71, 1332-1337.	3.2	49
5	Crystallizations, Solid-State Phase Transformations and Dissolution Behavior Explained by Dispersive Kinetic Models Based on a Maxwellâ°'Boltzmann Distribution of Activation Energies: Theory, Applications, and Practical Limitations. Journal of Physical Chemistry A, 2009, 113, 9329-9336.	1.1	39
6	Kinetics and Thermodynamics of Efficient Chiral Symmetry Breaking in Nearly Racemic Mixtures of Conglomerate Crystals. Crystal Growth and Design, 2011, 11, 1957-1965.	1.4	30
7	Use of Dispersive Kinetic Models for Nucleation and Denucleation to Predict Steady-State Nanoparticle Size Distributions and the Role of Ostwald Ripening. Journal of Physical Chemistry C, 2012, 116, 214-225.	1.5	30
8	Roles of Nucleation, Denucleation, Coarsening, and Aggregation Kinetics in Nanoparticle Preparations and Neurological Disease. Langmuir, 2012, 28, 4842-4857.	1.6	28
9	A simple model for complex dissolution kinetics: A case study of norfloxacin. Journal of Pharmaceutical and Biomedical Analysis, 2007, 45, 251-256.	1.4	26
10	Disproportionation of a crystalline citrate salt of a developmental pharmaceutical compound: Characterization of the kinetics using pH monitoring and online Raman spectroscopy plus quantitation of the crystalline free base form in binary physical mixtures using FT-Raman, XRPD and DSC. Journal of Pharmaceutical and Biomedical Analysis, 2014, 90, 186-191.	1.4	26
11	Use of Dispersive Kinetic Models To Describe the Rate of Metal Nanoparticle Self-Assembly. Chemistry of Materials, 2008, 20, 3-4.	3.2	25
12	Use of Coupled Rate Equations To Describe Nucleation-and-Branching Rate-Limited Solid-State Processes. Journal of Physical Chemistry A, 2004, 108, 6709-6712.	1,1	23
13	Use of a Quality-by-Design approach to justify removal of the HPLC weight % assay from routine API stability testing protocols. Journal of Pharmaceutical and Biomedical Analysis, 2009, 50, 794-796.	1.4	23
14	An HPLC chromatographic reactor approach for investigating the hydrolytic stability of a pharmaceutical compound. Journal of Pharmaceutical and Biomedical Analysis, 2006, 41, 883-890.	1.4	21
15	The amorphous state: first-principles derivation of the Gordon–Taylor equation for direct prediction of the glass transition temperature of mixtures; estimation of the crossover temperature of fragile glass formers; physical basis of the "Rule of 2/3†Physical Chemistry Chemical Physics, 2017, 19, 20523-20532.	1.3	20
16	A Collision Theory-Based Derivation of Semiempirical Equations for Modeling Dispersive Kinetics and Their Application to a Mixed-Phase Crystal Decomposition. Journal of Physical Chemistry A, 2006, 110, 11494-11500.	1.1	19
17	Dispersive kinetic models for isothermal solid-state conversions and their application to the thermal decomposition of oxacillin. Thermochimica Acta, 2007, 453, 14-20.	1.2	17
18	Physicochemically Relevant Modeling of Nucleation-And-Growth Kinetics: Investigation of Additive Effects on the Solvent-Mediated Phase Transformation of Carbamazepine. Crystal Growth and Design, 2008, 8, 4185-4189.	1.4	17

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19	GC–MS Study of the formation of alkoxysilanes from a sol–gel precursor in a hydrophobic solution: A potential new route to hybrid molecular imprinted polymers. Journal of Non-Crystalline Solids, 2006, 352, 3302-3309.	1.5	16
20	Reduction of Indicator Leaching from Doped Sol-Gels by Attachment of Macromolecular Carriers. Applied Spectroscopy, 1999, 53, 785-791.	1.2	15
21	Practical Estimation of Amorphous Solubility Enhancement Using Thermoanalytical Data: Determination of the Amorphous/Crystalline Solubility Ratio for Pure Indomethacin and Felodipine. Journal of Pharmaceutical Sciences, 2016, 105, 2625-2630.	1.6	14
22	Thermal decomposition oftert-butyl peroxide in a gas chromatographic reactor: A comparison of kinetic approaches. International Journal of Chemical Kinetics, 2004, 36, 386-393.	1.0	13
23	Can we trust kinetic methods of thermal analysis?. Analyst, The, 2020, 145, 745-749.	1.7	13
24	Comparison of Two Types of Dispersive Kinetic Approaches in Relation to Time-Dependent Marcus Theory. Journal of Physical Chemistry A, 2007, 111, 11809-11813.	1.1	12
25	Activation Energy Distributions Predicted by Dispersive Kinetic Models for Nucleation and Denucleation: Anomalous Diffusion Resulting from Quantization. Journal of Physical Chemistry A, 2011, 115, 6413-6425.	1.1	12
26	Starch-iodine films respond to water vapor. Analytica Chimica Acta, 2002, 455, 49-52.	2.6	11
27	Statistical Thermodynamic Description of Homogeneous Dispersive Kinetics. Journal of Physical Chemistry A, 2007, 111, 4248-4251.	1.1	11
28	Modeling Recrystallization Kinetics Following the Dissolution of Amorphous Drugs. Molecular Pharmaceutics, 2020, 17, 219-228.	2.3	11
29	Semi-empirical model fits femtosecond gas phase reaction kinetics. Chemical Physics Letters, 2006, 419, 130-133.	1.2	10
30	On the Stability of Nano-formulations Prepared by Direct Synthesis: Simulated Ostwald Ripening of a Typical Nanocrystal Distribution Post-nucleation. AAPS PharmSciTech, 2019, 20, 34.	1.5	9
31	Crystallization of Glycine During Freezing of a 40/60 w/w Sucrose/Glycine Excipient System: An Alternative to the Johnson–Mehl–Avrami (JMA) Equation for Modeling Dispersive Kinetics. Journal of Pharmaceutical Sciences, 2007, 96, 2107-2110.	1.6	8
32	Semi-empirical description of the constant β in the equation of state for interfacial tension. Journal of Colloid and Interface Science, 2011, 360, 313-316.	5.0	8
33	Predicted amorphous solubility and dissolution rate advantages following moisture sorption: Case studies of indomethacin and felodipine. International Journal of Pharmaceutics, 2019, 555, 100-108.	2.6	8
34	Dynamical Considerations for Kinetic Methods in Thermal Analysis. Journal of Physics and Chemistry of Solids, 2013, 74, 1375-1379.	1.9	7
35	Dispersive kinetic models predict variation of the activation energy with extent of conversion observed experimentally in isoconversional data. Thermochimica Acta, 2014, 578, 68-73.	1.2	7
36	Predicting the solubility enhancement of amorphous drugs and related phenomena using basic thermodynamic principles and semi-empirical kinetic models. International Journal of Pharmaceutics, 2019, 567, 118465.	2.6	7

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37	Planar Integrated Optical Waveguide Sensor for Isopropyl Alcohol in Aqueous Media. Journal of Sol-Gel Science and Technology, 2002, 24, 167-173.	1.1	6
38	Statistical kinetic approach for modeling lifespan. Biophysical Chemistry, 2005, 118, 22-24.	1.5	6
39	Estimating the maximal solubility advantage of drug salts. International Journal of Pharmaceutics, 2021, 595, 120228.	2.6	6
40	Use of realâ€ŧime FT″R monitoring of a pharmaceutical compound under stress atmospheric conditions to characterize its solidâ€state degradation kinetics. International Journal of Chemical Kinetics, 2010, 42, 25-36.	1.0	5
41	Comment on "Fitting and Interpreting Transition-Metal Nanocluster Formation and Other Sigmoidal-Appearing Kinetic Data: A More Thorough Testing of Dispersive Kinetic vs Chemical-Mechanism-Based Equations and Treatments for 4-Step Type Kinetic Data― Chemistry of Materials, 2010, 22, 2685-2686.	3.2	5
42	Observation of oscillatory behavior during the dissolution of a pharmaceutical compound and evidence for the existence of an inverse Ostwald rule. Physical Chemistry Chemical Physics, 2010, 12, 3788.	1.3	5
43	Investigations into the chromatographic behavior of a doxorubicin–peptide conjugate. Journal of Chromatography A, 2002, 973, 27-38.	1.8	4
44	Atomistic Description of Two-Dimensional Hexagonal Close-Packed Critical Nuclei Exhibiting Quantization of the Activation Energy Barrier. Crystal Growth and Design, 2013, 13, 1970-1977.	1.4	4
45	A high-temperature liquid chromatographic reactor approach for investigating the solvolytic stability of a pharmaceutical compound and an investigation of its retention behavior on a C18-modified zirconia stationary phase. Journal of Pharmaceutical and Biomedical Analysis, 2008, 47, 312-319.	1.4	2
46	Modeling Sigmoidal Transients Using Dispersive Kinetic Models to Predict Nanoparticle Size Distributions. Crystal Growth and Design, 2021, 21, 1843-1853.	1.4	2
47	Investigation into the Gaussian time-dependence of the rate coefficient in dispersive kinetic models applied to simple gas-phase chemical reactions. Molecular Physics, 2014, 112, 97-100.	0.8	1
48	Relaxation kinetics in fragile glass-forming liquids: a dispersive kinetics view of Vogel–Tammann–Fulcher behaviour in o-terphenyl. Journal of Commonwealth Law and Legal Education, 2019, 60, 104-114.	0.2	1
49	Modelling sub-micron particle slip flow in liquid chromatography. Talanta, 2020, 208, 120400.	2.9	Ο
50	Predicting the Solubility Advantage of Amorphous Drugs: Effect of pH. Journal of Pharmaceutical Sciences, 2020, 109, 1627-1629.	1.6	0