Liangfeng Guo

List of Publications by Year
in descending order

27	400	687363 13	794594 19
papers	citations	h-index	g-index

28	28	28	480
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simultaneous determination of several crystal structures from powder mixtures: the combination of powder X-ray diffraction, band-target entropy minimization and Rietveld methods. Journal of Applied Crystallography, 2014, 47, 659-667.	4.5	48
2	In Situ Infrared Spectroscopy as a Tool for Monitoring Molecular Catalyst for Hydroformylation in Continuous Processes. ACS Catalysis, 2019, 9, 4308-4319.	11.2	35
3	Screening for Cocrystallization Tendency: The Role of Intermolecular Interactions. Journal of Physical Chemistry B, 2008, 112, 9890-9895.	2.6	31
4	Homogeneous Hydroformylation of Ethylene Catalyzed by Rh4(CO)12. The Application of BTEM to Identify a New Class of Rhodium Carbonyl Spectra:Â RCORh(CO)3(Î·-C2H4). Organometallics, 2004, 23, 2201-2204.	2.3	29
5	Development of 2D Band-Target Entropy Minimization and Application to the Deconvolution of Multicomponent 2D Nuclear Magnetic Resonance Spectra. Analytical Chemistry, 2005, 77, 1655-1662.	6.5	27
6	A general method for the recovery of pure powder XRD patterns from complex mixtures using no a priori information. Analytica Chimica Acta, 2004, 517, 229-236.	5.4	22
7	Experimental evidence for a significant homometallic catalytic binuclear elimination reaction: Linear-quadratic kinetics in the rhodium catalyzed hydroformylation of cyclooctene. Journal of Catalysis, 2006, 237, 67-78.	6.2	21
8	High molecular weight hyper-branched PCL-based thermogelling vitreous endotamponades. Biomaterials, 2022, 280, 121262.	11.4	19
9	The use of entropy minimization for the solution of blind source separation problems in image analysis. Pattern Recognition, 2006, 39, 1066-1073.	8.1	16
10	Preparation of quercetin nanorod/microcrystalline cellulose formulation via fluid bed coating crystallization for dissolution enhancement. International Journal of Pharmaceutics, 2020, 576, 118983.	5.2	16
11	Application of the BTEM family of algorithms to reconstruct individual UVâ€"Vis spectra from multi-component mixtures. Chemometrics and Intelligent Laboratory Systems, 2009, 95, 94-100.	3.5	15
12	From Stoichiometric to Catalytic Binuclear Elimination in Rhâ€"W Hydroformylations. Identification of Two New Heterobimetallic Intermediates. Organometallics, 2011, 30, 4292-4296.	2.3	15
13	Four Criteria for Evaluating Pure Component Spectral Estimates and the Subsequent Identification of Intermediates in Homogeneous Catalysis. ACS Catalysis, 2012, 2, 2327-2334.	11.2	15
14	The development of a response surface model for the determination of infinite dilution partial molar volumes and excess volumes from dilute multi-component data alone. Implications for the characterization of non-isolatable solutes in complex homogeneous reactive systems. Chemical Engineering Science, 2005, 60, 3239-3249.	3.8	12
15	Synthesis of 3â€Fluoroâ€2â€hetarylindoles and 3,3â€Difluoroâ€2â€hetarylindolines through Lewis Acidâ€Catalyzed Formation of 3,3â€Difluoroindolium Ions. European Journal of Organic Chemistry, 2015, 2015, 995-1006.	2.4	12
16	Aminoâ€methyl coumarin as a potential SERS@Ag probe for the evaluation of protease activity and inhibition. Journal of Raman Spectroscopy, 2017, 48, 82-88.	2.5	12
17	Three approaches to total quantitative phase analysis of organic mixtures using an external standard. Journal of Applied Crystallography, 2011, 44, 17-24.	4.5	10
18	Zinc diethyldithiocarbamate as a catalyst for synthesising biomedically-relevant thermogelling polyurethanes. Materials Advances, 2020, 1, 3221-3232.	5.4	9

#	Article	IF	Citations
19	A combination of spectral re-alignment and BTEM for the estimation of pure component NMR spectra from multi-component non-reactive and reactive systems. Analytica Chimica Acta, 2008, 608, 48-55.	5.4	8
20	Identification of Rhodium–Rhenium Nonacarbonyl RhRe(CO)9. Spectroscopic and Thermodynamic Aspects. Organometallics, 2004, 23, 5275-5279.	2.3	6
21	Determination of the individual specific heat capacities of solids from multi-component powder mixtures and polymorphic mixtures. Journal of Thermal Analysis and Calorimetry, 2012, 108, 361-370.	3.6	6
22	Application of Two-Dimensional Band-Target Entropy Minimization to Fluorescence Data: Implications for the Recovery of Patterns Arising from Only Bilinear and Not Trilinear Structures. Applied Spectroscopy, 2007, 61, 148-156.	2.2	5
23	Determining the pure component spectra of trace organometallic intermediates by combined application of in situ Raman spectroscopy and band-target entropy minimization analysis. Vibrational Spectroscopy, 2014, 70, 110-114.	2.2	5
24	Two-Dimensional (2D) Correlation Analysis and the Search for Intermediates: A Strictly Mathematical Approach to an Important Mechanistic Question. ACS Catalysis, 2015, 5, 3588-3599.	11.2	5
25	A multicomponent calibration approach to the microabsorption problem involving inorganic mixtures. Journal of Applied Crystallography, 2011, 44, 25-31.	4.5	1
26	An Advanced Digital Filter for One-Dimensional Spectroscopic Data: Minimizing Distortion in Band Shapes and Band Intensities. Applied Spectroscopy, 2011, 65, 657-664.	2.2	0
27	Electronic Excitation of $[(\mu_4-\eta^2-alkyne)Rh_4(CO)_8(\mu_4-CO)_2]$: An In Situ UV/Vis Spectroscopy, Spectral Reconstruction and DFT Study. ChemPhysChem, 2012, 13, 3139-3145.	2.5	0