Cedric J Gommes

List of Publications by Year
in descending order

62	2,142	236833	233338
papers	citations	25 h-index	45 g-index

66	66	66	3217
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Time-Dependent Hierarchical Model for Elastic and Inelastic Scattering Data Analysis of Aerogels and Similar Soft Materials. Gels, 2022, 8, 236.	2.1	0
2	Inelastic neutron scattering analysis with time-dependent Gaussian-field models. Journal of Chemical Physics, 2021, 155, 024121.	1.2	2
3	Small-angle scattering for beginners. Journal of Applied Crystallography, 2021, 54, 1832-1843.	1.9	20
4	Stochastic models of dense or hollow nanoparticles and their scattering properties. Journal of Applied Crystallography, 2020, 53, 811-823.	1.9	3
5	Chord-length distributions cannot generally be obtained from small-angle scattering. Journal of Applied Crystallography, 2020, 53, 127-132.	1.9	7
6	The PÃ©clet number of a casino: Diffusion and convection in a gambling context. American Journal of Physics, 2020, 88, 439-447.	0.3	4
7	Small-angle scattering by supported nanoparticles: exact results and useful approximations. Journal of Applied Crystallography, 2019, 52, 507-519.	1.9	7
8	Ostwald ripening of confined nanoparticles: chemomechanical coupling in nanopores. Nanoscale, 2019, 11, 7386-7393.	2.8	51
9	Disentangling the Degradation Pathways of Highly Defective PtNi/C Nanostructures â€“ An Operando Wide and Small Angle X-ray Scattering Study. ACS Catalysis, 2019, 9, 160-167.	5.5	22
10	Stochastic analysis of capillary condensation in disordered mesopores. Physical Chemistry Chemical Physics, 2018, 20, 13646-13659.	1.3	11
11	Stochastic models of disordered mesoporous materials for small-angle scattering analysis and more. Microporous and Mesoporous Materials, 2018, 257, 62-78.	2.2	35
12	Scale-dependent diffusion anisotropy in nanoporous silicon. Scientific Reports, 2017, 7, 40207.	1.6	43
13	Subâ€Micrometer Structure Formation during Spin Coating Revealed by Timeâ€Resolved In Situ Laser and Xâ€Ray Scattering. Advanced Functional Materials, 2017, 27, 1702516.	7.8	35
14	Thin Films: Subâ€Micrometer Structure Formation during Spin Coating Revealed by Timeâ€Resolved In Situ Laser and Xâ€Ray Scattering (Adv. Funct. Mater. 46/2017). Advanced Functional Materials, 2017, 27, .	7.8	0
15	Revealing the Formation of Copper Nanoparticles from a Homogeneous Solid Precursor by Electron Microscopy. Journal of the American Chemical Society, 2016, 138, 3433-3442.	6.6	50
16	Small-angle scattering and scale-dependent heterogeneity. Journal of Applied Crystallography, 2016, 49, 1162-1176.	1.9	11
17	Small-Angle Scattering Analysis of Empty or Loaded Hierarchical Porous Materials. Journal of Physical Chemistry C, 2016, 120, 1488-1506.	1.5	19
18	Mesoscale Characterization of Nanoparticles Distribution Using Xâ€ray Scattering. Angewandte Chemie - International Edition, 2015, 54, 11804-11808.	7.2	22

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19	An Ecoâ€friendly Soft Template Synthesis of Mesostructured Silicaâ€Carbon Nanocomposites for Acid Catalysis. ChemCatChem, 2015, 7, 3047-3058.	1.8	16
20	Small-Angle X-ray Scattering Insights into the Architecture-Dependent Emulsifying Properties of Amphiphilic Copolymers in Supercritical Carbon Dioxide. Journal of Physical Chemistry B, 2015, 119, 1706-1716.	1.2	15
21	Support Functionalization To Retard Ostwald Ripening in Copper Methanol Synthesis Catalysts. ACS Catalysis, 2015, 5, 4439-4448.	5.5	96
22	The range of validity of sorption kinetic models. Journal of Colloid and Interface Science, 2015, 448, 437-450.	5.0	79
23	A high pressure cell for supercritical CO2 on-line chemical reactions studied with x-ray techniques. Review of Scientific Instruments, 2014, 85, 093905.	0.6	17
24	Nanoparticle Growth in Supported Nickel Catalysts during Methanation Reactionâ€”Larger is Better. Angewandte Chemie - International Edition, 2014, 53, 9493-9497.	7.2	84
25	Rapid aqueous synthesis of ordered mesoporous carbons: Investigation of synthesis variables and application as anode materials for Li-ion batteries. Microporous and Mesoporous Materials, 2014, 195, 92-101.	2.2	15
26	The Structure and Thermal Stability of Amyloseâ€“Lipid Complexes: A Case Study on Amyloseâ€“Glycerol Monostearate. Crystal Growth and Design, 2014, 14, 3221-3233.	1.4	51
27	3D Nanoscale Analysis of Zeolite Catalysts by Electron Tomography and Image Processing. Microscopy and Microanalysis, 2014, 20, 784-785.	0.2	2
28	Three-dimensional reconstruction of liquid phases in disordered mesopores usingin situsmall-angle scattering. Journal of Applied Crystallography, 2013, 46, 493-504.	1.9	25
29	Molecular and Morphological Aspects of Annealing-Induced Stabilization of Starch Crystallites. Biomacromolecules, 2012, 13, 1361-1370.	2.6	43
30	Adsorption, Capillary Bridge Formation, and Cavitation in SBA-15 Corrugated Mesopores: A Derjaguinâ€“Broekhoffâ€“de Boer Analysis. Langmuir, 2012, 28, 5101-5115.	1.6	41
31	Mesoporosity of Zeoliteâ€…Y: Quantitative Threeâ€Dimensional Study by Image Analysis of Electron Tomograms. Angewandte Chemie - International Edition, 2012, 51, 4213-4217.	7.2	103
32	2-Point correlation function of nanostructured materials via the grey-tone correlation function of electron tomograms: A three-dimensional structural analysis of ordered mesoporous silica. Acta Materialia, 2010, 58, 770-780.	3.8	19
33	Preparation of highly loaded Pt/carbon xerogel catalysts for Proton Exchange Membrane fuel cells by the Strong Electrostatic Adsorption method. Catalysis Today, 2010, 150, 119-127.	2.2	51
34	CONEX, a program for angular calibration and averaging of two-dimensional powder scattering patterns. Journal of Applied Crystallography, 2010, 43, 352-355.	1.9	48
35	Synthesis and characterization of highly loaded Pt/carbon xerogel catalysts prepared by the Strong Electrostatic Adsorption method. Studies in Surface Science and Catalysis, 2010, 175, 169-176.	1.5	3
36	A more thorough analysis of water rockets: Moist adiabats, transient flows, and inertial forces in a soda bottle. American Journal of Physics, 2010, 78, 236-243.	0.3	13

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37	Condensation-Induced Decrease of Small-Angle X-ray Scattering Intensity in Gelling Silica Solutions. Journal of Physical Chemistry C, 2010, 114, 17350-17357.	1.5	5
38	Sulfonated silica/carbon nanocomposites as novel catalysts for hydrolysis of cellulose to glucose. Green Chemistry, 2010, 12, 1560.	4.6	286
39	Morphological models of complex ordered materials based on inhomogeneously clipped Gaussian fields. Physical Review E, 2009, 80, 061401.	0.8	11
40	Practical methods for measuring the tortuosity of porous materials from binary or grayâ€tone tomographic reconstructions. AIChE Journal, 2009, 55, 2000-2012.	1.8	143
41	Water desorption from resorcinol-formaldehyde hydrogels and adsorption in the resulting xerogels. Microporous and Mesoporous Materials, 2009, 117, 61-66.	2.2	7
42	Quantitative Characterization of Pore Corrugation in Ordered Mesoporous Materials Using Image Analysis of Electron Tomograms. Chemistry of Materials, 2009, 21, 1311-1317.	3.2	85
43	Quantitative Structural Analysis of Binary Nanocrystal Superlattices by Electron Tomography. Nano Letters, 2009, 9, 2719-2724.	4.5	90
44	Critical opalescence points to thermodynamic instability: relevance to small-angle X-ray scattering of resorcinolâ€“formaldehyde gel formation at low pH. Journal of Applied Crystallography, 2008, 41, 663-668.	1.9	18
45	Formation mechanism of Y-junctions in arrays of multi-walled carbon nanotubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 327, 140-143.	2.3	5
46	Effect of the counter-ion of the basification agent on the pore texture of organic and carbon xerogels. Journal of Non-Crystalline Solids, 2008, 354, 4698-4701.	1.5	25
47	Structure development of resorcinol-formaldehyde gels: Microphase separation or colloid aggregation. Physical Review E, 2008, 77, 041409.	0.8	60
48	Branching, aggregation, and phase separation during the gelation of tetraethoxysilane. Journal of Non-Crystalline Solids, 2007, 353, 2495-2499.	1.5	25
49	Relevance of Spinodal Decomposition for Support Formation and Metal Dispersion in Cogelled Pd/SiO₂ Catalysts. Journal of Physical Chemistry C, 2007, 111, 11150-11156.	1.5	6
50	Positive curvature effects and interparticle capillary condensation during nitrogen adsorption in particulate porous materials. Journal of Colloid and Interface Science, 2007, 314, 415-421.	5.0	11
51	Multiscale image analysis of microcellular solids: application to hybrid silica xerogels. Journal of Microscopy, 2007, 226, 156-162.	0.8	2
52	The microstructure of hybrid silica gels and its modification by evaporative and supercritical dryings. Journal of Sol-Gel Science and Technology, 2007, 44, 211-218.	1.1	3
53	Characterization of gels via solvent desorption measurements. Adsorption, 2007, 13, 533-540.	1.4	4
54	Structure of Silica Xerogels Synthesized with Organoalkoxysilane Co-reactants Hints at Multiple Phase Separation. Journal of Physical Chemistry B, 2006, 110, 7757-7765.	1.2	12

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55	Phase separation during silica gel formation followed by time-resolved SAXS. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 141-145.	0.6	7
56	Nitrogen Adsorption on Silica Xerogels or the Odd Look of a t Plot. Langmuir, 2005, 21, 1703-1705.	1.6	8
57	Assessment of the 3D Localization of Metallic Nanoparticles in Pd/SiO2Cogelled Catalysts by Electron Tomography. Langmuir, 2005, 21, 12378-12385.	1.6	43
58	Formation and structural characteristics of Pdâ€“Ag/SiO2 and Pdâ€“Cu/SiO2 catalysts synthesized by cogelation. Journal of Non-Crystalline Solids, 2005, 351, 3839-3853.	1.5	10
59	Influence of the operating conditions on the production rate of multi-walled carbon nanotubes in a CVD reactor. Carbon, 2004, 42, 1473-1482.	5.4	45
60	In Situ SAXS Analysis of Silica Gel Formation with an Additive. Journal of Physical Chemistry B, 2004, 108, 8983-8991.	1.2	39
61	Image analysis characterization of multi-walled carbon nanotubes. Carbon, 2003, 41, 2561-2572.	5.4	44
62	Increased aortic compliance maintains left ventricular performance at lower energetic cost. European Journal of Cardio-thoracic Surgery, 2000, 17, 272-278.	0.6	25