

Wolfgang Peukert

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418 papers	11,469 citations	54 h-index	82 g-index
430 ext. papers	12,874 ext. citations	5.6 avg, IF	6.61 L-index

#	Paper	IF	Citations
4 ¹⁸	Carbon nanodots: toward a comprehensive understanding of their photoluminescence. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17308-16	16.4	282
4 ¹⁷	Impact of the nanoparticle-protein corona on colloidal stability and protein structure. <i>Langmuir</i> , 2012 , 28, 9673-9	4	257
4 ¹⁶	Breakage behaviour of different materialsConstruction of a mastercurve for the breakage probability. <i>Powder Technology</i> , 2003 , 129, 101-110	5.2	215
4 ¹⁵	Analysis of optical absorbance spectra for the determination of ZnO nanoparticle size distribution, solubility, and surface energy. <i>ACS Nano</i> , 2009 , 3, 1703-10	16.7	213
4 ¹⁴	Scalable production of graphene sheets by mechanical delamination. <i>Carbon</i> , 2010 , 48, 3196-3204	10.4	180
4 ¹³	Mechanical production and stabilization of submicron particles in stirred media mills. <i>Powder Technology</i> , 2003 , 132, 64-73	5.2	147
4 ¹²	Efficient drug-delivery using magnetic nanoparticles--biodistribution and therapeutic effects in tumour bearing rabbits. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 961-71	6	144
4 ¹¹	Combined experimental/numerical study on the precipitation of nanoparticles. <i>AIChE Journal</i> , 2004 , 50, 3234-3247	3.6	144
4 ¹⁰	Particle adhesion force distributions on rough surfaces. <i>Langmuir</i> , 2004 , 20, 5298-303	4	142
4 ⁰⁹	Nanomilling in stirred media mills. <i>Chemical Engineering Science</i> , 2005 , 60, 4557-4565	4.4	134
4 ⁰⁸	London-van der Waals adhesiveness of rough particles. <i>Powder Technology</i> , 2006 , 161, 248-255	5.2	122
4 ⁰⁷	Identifying the apparent and true grinding limit. <i>Powder Technology</i> , 2009 , 195, 25-30	5.2	110
4 ⁰⁶	Precipitation of nanoparticles in a T-mixer: Coupling the particle population dynamics with hydrodynamics through direct numerical simulation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006 , 45, 908-916	3.7	110
4 ⁰⁵	pH effects on the molecular structure of β -lactoglobulin modified air-water interfaces and its impact on foam rheology. <i>Langmuir</i> , 2013 , 29, 11646-55	4	106
4 ⁰⁴	Determination of the quantum dot band gap dependence on particle size from optical absorbance and transmission electron microscopy measurements. <i>ACS Nano</i> , 2012 , 6, 9021-32	16.7	105
4 ⁰³	From single particle impact behaviour to modelling of impact mills. <i>Chemical Engineering Science</i> , 2005 , 60, 5164-5176	4.4	103
4 ⁰²	Multidimensional analysis of nanoparticles with highly disperse properties using multiwavelength analytical ultracentrifugation. <i>ACS Nano</i> , 2014 , 8, 8871-86	16.7	102

401	Experimental Investigation into the Influence of Mixing on Nanoparticle Precipitation. <i>Chemical Engineering and Technology</i> , 2002 , 25, 657	2	99
400	Nanoparticle Production with Stirred-Media Mills: Opportunities and Limits. <i>Chemical Engineering and Technology</i> , 2010 , 33, 1401-1411	2	96
399	Agglomeration and breakage of nanoparticles in stirred media mills—comparison of different methods and models. <i>Chemical Engineering Science</i> , 2006 , 61, 135-148	4.4	96
398	In vitro reactivity of Cu doped 45S5 Bioglass® derived scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5659-5674	7.3	95
397	Influence of mechanical properties on impact fracture: Prediction of the milling behaviour of pharmaceutical powders by nanoindentation. <i>Powder Technology</i> , 2009 , 188, 301-313	5.2	93
396	Dispersive forces of particle–surface interactions: direct AFM measurements and modelling. <i>Powder Technology</i> , 2003 , 130, 102-109	5.2	93
395	Minkowski tensor shape analysis of cellular, granular and porous structures. <i>Advanced Materials</i> , 2011 , 23, 2535-53	24	91
394	Predictive simulation of nanoparticle precipitation based on the population balance equation. <i>Chemical Engineering Science</i> , 2006 , 61, 167-181	4.4	91
393	Attractive particle interaction forces and packing density of fine glass powders. <i>Scientific Reports</i> , 2014 , 4, 6227	4.9	84
392	Accelerated grain refinement during accumulative roll bonding by nanoparticle reinforcement. <i>Scripta Materialia</i> , 2011 , 64, 245-248	5.6	84
391	Industrial separation of fine particles with difficult dust properties. <i>Powder Technology</i> , 2001 , 118, 136-148	14.8	84
390	Control of aggregation in production and handling of nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005 , 44, 245-252	3.7	83
389	Experimental and theoretical studies of the colloidal stability of nanoparticles—a general interpretation based on stability maps. <i>ACS Nano</i> , 2011 , 5, 4658-69	16.7	82
388	Shedding light on the effective fluorophore structure of high fluorescence quantum yield carbon nanodots. <i>RSC Advances</i> , 2017 , 7, 24771-24780	3.7	76
387	Cobalt-releasing 1393 bioactive glass-derived scaffolds for bone tissue engineering applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2865-77	9.5	76
386	Inorganic Layers on Polymeric Films—Influence of Defects and Morphology on Barrier Properties. <i>Chemical Engineering and Technology</i> , 2003 , 26, 605-614	2	76
385	The influence of suspension properties on the grinding behavior of alumina particles in the submicron size range in stirred media mills. <i>Powder Technology</i> , 2005 , 156, 103-110	5.2	74
384	Dispersing nanoparticles in liquids. <i>International Journal of Mineral Processing</i> , 2004 , 74, S31-S41		73

383	The influence of particle charge and roughness on particle-substrate adhesion. <i>Powder Technology</i> , 2003 , 135-136, 82-91	5.2	67
382	TAILORING PARTICLE SIZE THROUGH NANOPARTICLE PRECIPITATION. <i>Chemical Engineering Communications</i> , 2004 , 191, 580-606	2.2	66
381	On the relevance of accounting for the evolution of the fractal dimension in aerosol process simulations. <i>Journal of Aerosol Science</i> , 2003 , 34, 511-534	4.3	66
380	Ligand-assisted thickness tailoring of highly luminescent colloidal CHNHPbX (X = Br and I) perovskite nanoplatelets. <i>Chemical Communications</i> , 2016 , 53, 244-247	5.8	65
379	Photobleaching and stabilization of carbon nanodots produced by solvothermal synthesis. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 466-75	3.6	64
378	Quantitative evaluation of delamination of graphite by wet media milling. <i>Carbon</i> , 2015 , 81, 284-294	10.4	63
377	A novel process route for the production of spherical LBM polymer powders with small size and good flowability. <i>Powder Technology</i> , 2014 , 261, 78-86	5.2	63
376	Determination of material properties relevant to grinding by practicable labscale milling tests. <i>International Journal of Mineral Processing</i> , 2004 , 74, S329-S338		63
375	Structure and Dynamics of Interfacial Peptides and Proteins from Vibrational Sum-Frequency Generation Spectroscopy. <i>Chemical Reviews</i> , 2020 , 120, 3420-3465	68.1	61
374	Prediction of aggregation kinetics based on surface properties of nanoparticles. <i>Chemical Engineering Science</i> , 2005 , 60, 11-25	4.4	61
373	Efficient synthetic access to cationic dendrons and their application for ZnO nanoparticles surface functionalization: new building blocks for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17910-20	16.4	60
372	Protein adsorption at the electrified air-water interface: implications on foam stability. <i>Langmuir</i> , 2012 , 28, 7780-7	4	59
371	Impact of oxygen plasma treatment on the device performance of zinc oxide nanoparticle-based thin-film transistors. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1693-6	9.5	57
370	A General Approach To Study the Thermodynamics of Ligand Adsorption to Colloidal Surfaces Demonstrated by Means of Catechols Binding to Zinc Oxide Quantum Dots. <i>Chemistry of Materials</i> , 2015 , 27, 358-369	9.6	56
369	Probing colloidal interfaces by angle-resolved second harmonic light scattering. <i>Physical Review B</i> , 2010 , 82,	3.3	56
368	Communication via Electron and Energy Transfer between Zinc Oxide Nanoparticles and Organic Adsorbates. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4669-4678	3.8	56
367	Effective Ligand Engineering of the Cu ₂ ZnSnS ₄ Nanocrystal Surface for Increasing Hole Transport Efficiency in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 8300-8306	15.6	56
366	Real-Time Monitoring of the Nucleation and Growth of ZnO Nanoparticles Using an Optical Hyper-Rayleigh Scattering Method. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11995-12001	3.8	55

365	An improved generalized AMBER force field (GAFF) for urea. <i>Journal of Molecular Modeling</i> , 2010 , 16, 1427-40	2	54
364	Simulation of the hydrodynamic drag of aggregated particles. <i>Journal of Colloid and Interface Science</i> , 2006 , 301, 155-67	9.3	54
363	Industrially scalable and cost-effective Mn ²⁺ doped Zn _x Cd _{1-x} S/ZnS nanocrystals with 70% photoluminescence quantum yield, as efficient down-shifting materials in photovoltaics. <i>Energy and Environmental Science</i> , 2016 , 9, 1083-1094	35.4	53
362	Production of polymer particles below 5 μ m by wet grinding. <i>Powder Technology</i> , 2012 , 228, 84-90	5.2	53
361	One-pot colloidal synthesis of plasmonic patchy particles. <i>Advanced Materials</i> , 2011 , 23, 2644-9	24	53
360	Microstructural characterization of hematite during wet and dry millings using Rietveld and XRD line profile analyses. <i>Powder Technology</i> , 2008 , 186, 9-21	5.2	53
359	Industrial classification in a new impeller wheel classifier. <i>Powder Technology</i> , 1999 , 105, 186-189	5.2	53
358	Delamination of graphite in a high pressure homogenizer. <i>RSC Advances</i> , 2015 , 5, 57328-57338	3.7	52
357	Purification and structural elucidation of carbon dots by column chromatography. <i>Nanoscale</i> , 2019 , 11, 8464-8474	7.7	51
356	Noble-Metal-Free Photocatalytic Hydrogen Evolution Activity: The Impact of Ball Milling Anatase Nanopowders with TiH. <i>Advanced Materials</i> , 2017 , 29, 1604747	24	51
355	An effective way to stabilize colloidal particles dispersed in polar and nonpolar media. <i>Langmuir</i> , 2007 , 23, 504-8	4	51
354	Evolution of the fractal dimension for simultaneous coagulation and sintering. <i>Chemical Engineering Science</i> , 2006 , 61, 293-305	4.4	51
353	Simultaneous analysis of hydrodynamic and optical properties using analytical ultracentrifugation equipped with multiwavelength detection. <i>Analytical Chemistry</i> , 2015 , 87, 3396-403	7.8	49
352	Tuning the molecular order of C60 functionalized phosphonic acid monolayers. <i>Langmuir</i> , 2011 , 27, 15016-23	14	49
351	Monte Carlo simulation of aggregate morphology for simultaneous coagulation and sintering. <i>Journal of Nanoparticle Research</i> , 2004 , 6, 613-626	2.3	49
350	Optimum between purification and colloidal stability of ZnO nanoparticles. <i>Advanced Powder Technology</i> , 2010 , 21, 41-49	4.6	48
349	New possibilities of accurate particle characterisation by applying direct boundary models to analytical centrifugation. <i>Nanoscale</i> , 2015 , 7, 6574-87	7.7	47
348	Determination of the lateral dimension of graphene oxide nanosheets using analytical ultracentrifugation. <i>Small</i> , 2015 , 11, 814-25	11	47

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- 346 Determination of Hansen parameters for particles: A standardized routine based on analytical centrifugation. *Advanced Powder Technology*, **2018**, 29, 1550-1561 4.6 46
- 345 Mechanochemical aspects in wet stirred media milling. *International Journal of Mineral Processing*, **2016**, 156, 24-31 46
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- 343 A review of models for single particle compression and their application to silica microspheres. *Advanced Powder Technology*, **2014**, 25, 136-153 4.6 45
- 342 Detailed Analysis of the Growth Kinetics of ZnO Nanorods in Methanol. *Journal of Physical Chemistry C*, **2010**, 114, 6243-6249 3.8 45
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- 339 Influence of annealing temperature and measurement ambient on TFTs based on gas phase synthesized ZnO nanoparticles. *Microelectronic Engineering*, **2010**, 87, 2312-2316 2.5 43
- 338 Assigning Electronic States in Carbon Nanodots. *Advanced Functional Materials*, **2016**, 26, 7975-7985 15.6 42
- 337 The morphology of integrated self-assembled monolayers and their impact on devices: A computational and experimental approach. *Organic Electronics*, **2010**, 11, 1476-1482 3.5 42
- 336 Detailed investigations of ZnO photoelectrodes preparation for dye sensitized solar cells. *Langmuir*, **2011**, 27, 3920-9 4 41
- 335 Kinetics of radical formation during the mechanical activation of quartz. *Langmuir*, **2009**, 25, 2264-70 4 41
- 334 Mechanism of silver ion reduction in concentrated solutions of amphiphilic invertible polyesters in nonpolar solvent at room temperature. *Langmuir*, **2008**, 24, 12587-94 4 41
- 333 Material properties in fine grinding. *International Journal of Mineral Processing*, **2004**, 74, S3-S17 41
- 332 Morphological impact of zinc oxide layers on the device performance in thin-film transistors. *Nanoscale*, **2011**, 3, 897-9 7.7 40
- 331 Shape transformation mechanism of silver nanorods in aqueous solution. *Small*, **2011**, 7, 147-56 11 39
- 330 Aerosol synthesis of silicon nanoparticles with narrow size distribution Part 1: Experimental investigations. *Journal of Aerosol Science*, **2010**, 41, 998-1007 4.3 39

329	Fast and Slow Ligand Exchange at the Surface of Colloidal Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1673-1682	3.8	38
328	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11770-4	16.4	37
327	Dynamic range multiwavelength particle characterization using analytical ultracentrifugation. <i>Nanoscale</i> , 2016 , 8, 7484-95	7.7	37
326	Shedding light on the growth of gold nanoshells. <i>ACS Nano</i> , 2014 , 8, 3088-96	16.7	37
325	Influence of the counterion on the synthesis of ZnO mesocrystals under solvothermal conditions. <i>Chemistry - A European Journal</i> , 2011 , 17, 2923-30	4.8	37
324	High temperature filtration in the process industry. <i>Filtration and Separation</i> , 1998 , 35, 461-464	0.1	37
323	Synthesis of amphiphilic silver nanoparticles in nanoreactors from invertible polyester. <i>Langmuir</i> , 2007 , 23, 360-3	4	37
322	On the impact of accessible surface and surface energy on particle formation and growth from the vapour phase. <i>Journal of Aerosol Science</i> , 2005 , 36, 147-172	4.3	37
321	Invertible architectures from amphiphilic polyesters. <i>Langmuir</i> , 2006 , 22, 1946-8	4	36
320	Quantitative evaluation of size selective precipitation of Mn-doped ZnS quantum dots by size distributions calculated from UV/Vis absorbance spectra. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	35
319	Influence of particle size and concentration on the second-harmonic signal generated at colloidal surfaces. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 87, 333-339	1.9	35
318	Investigation of the size-property relationship in CuInS ₂ quantum dots. <i>Nanoscale</i> , 2015 , 7, 18105-18	7.7	34
317	Relation of Nanostructure and Recombination Dynamics in a Low-Temperature Solution-Processed CuInS ₂ Nanocrystalline Solar Cell. <i>Advanced Energy Materials</i> , 2013 , 3, 1589-1596	21.8	34
316	A comprehensive study on the mechanism behind formation and depletion of Cu ₂ ZnSnS ₄ (CZTS) phases. <i>CrystEngComm</i> , 2015 , 17, 6972-6984	3.3	34
315	Tuning the size and the optical properties of ZnO mesocrystals synthesized under solvothermal conditions. <i>Nanoscale</i> , 2012 , 4, 864-73	7.7	34
314	Three-dimensional simulation of viscous-flow agglomerate sintering. <i>Physical Review E</i> , 2009 , 80, 026319	2.4	34
313	Characterization of the grinding behaviour in a single particle impact device: studies on pharmaceutical powders. <i>European Journal of Pharmaceutical Sciences</i> , 2008 , 34, 45-55	5.1	34
312	Design of a new invertible polymer coating on a solid surface and its effect on dispersion colloidal stability. <i>Langmuir</i> , 2006 , 22, 6498-506	4	34

311	A Combined SAXS/SANS Study for the in Situ Characterization of Ligand Shells on Small Nanoparticles: The Case of ZnO. <i>Langmuir</i> , 2015 , 31, 10130-6	4	33
310	In Situ Study on the Evolution of Multimodal Particle Size Distributions of ZnO Quantum Dots: Some General Rules for the Occurrence of Multimodalities. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 15370-80	3-4	33
309	A novel apparatus for in situ compression of submicron structures and particles in a high resolution SEM. <i>Review of Scientific Instruments</i> , 2012 , 83, 095105	1-7	33
308	Experimental study of metal nanoparticle synthesis by an arc evaporation/condensation process. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2-3	33
307	Polyurethane/silver-nanocomposites with enhanced silver ion release using multifunctional invertible polyesters. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4377		33
306	Henry coefficients of adsorption predicted from solid Hamaker constants. <i>Chemical Engineering Science</i> , 2001 , 56, 3443-3453	4-4	33
305	Synthesis of Goethite FeOOH Particles by Air Oxidation of Ferrous Hydroxide $\text{Fe}(\text{OH})_2$ Suspensions: Insight on the Formation Mechanism. <i>Crystal Growth and Design</i> , 2015 , 15, 194-203	3-5	32
304	Advanced Multiwavelength Detection in Analytical Ultracentrifugation. <i>Analytical Chemistry</i> , 2018 , 90, 1280-1291	7-8	32
303	Enhancing In Vitro Bioactivity of Melt-Derived 45S5 Bioglass [®] by Comminution in a Stirred Media Mill. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 150-156	3-8	31
302	A population balance model of quantum dot formation: Oriented growth and ripening of ZnO. <i>Chemical Engineering Science</i> , 2012 , 70, 4-13	4-4	31
301	Grinding in an air classifier mill [Part I: Characterisation of the one-phase flow. <i>Powder Technology</i> , 2011 , 211, 19-27	5-2	31
300	Gas phase temperature measurements in the liquid and particle regime of a flame spray pyrolysis process using O ₂ -based pure rotational coherent anti-Stokes Raman scattering. <i>Applied Optics</i> , 2012 , 51, 6063-75	1-7	31
299	Modeling adhesion forces between deformable bodies by FEM and Hamaker summation. <i>Langmuir</i> , 2008 , 24, 1459-68	4	31
298	Influence of temperature on particle separation in granular bed filters. <i>Powder Technology</i> , 1991 , 68, 263-270	5-2	31
297	Production of spherical wax and polyolefin microparticles by melt emulsification for additive manufacturing. <i>Chemical Engineering Science</i> , 2016 , 141, 282-292	4-4	30
296	Grafting porphyrins (face-to-edge/orthogonal versus face-to-face/parallel) to ZnO en route toward dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14671-8	3-4	30
295	The influence of dispersing and stabilizing of indium tin oxide nanoparticles upon the characteristic properties of thin films. <i>Thin Solid Films</i> , 2009 , 517, 1624-1629	2-2	30
294	Simulation of structure and mobility of aggregates formed by simultaneous coagulation, sintering and surface growth. <i>Journal of Aerosol Science</i> , 2009 , 40, 950-964	4-3	30

293	The low Reynolds number turbulent flow and mixing in a confined impinging jet reactor. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 1429-1442	2.4	30
292	Production of sub-micron particles by wet comminution in stirred media mills. <i>Journal of Materials Science</i> , 2004 , 39, 5223-5226	4.3	30
291	Indentation and self-healing mechanisms of a self-assembled monolayer--a combined experimental and modeling study. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10718-27	16.4	29
290	Simultaneous 3D observation of different kinetic subprocesses for precipitation in a T-mixer. <i>Chemical Engineering Science</i> , 2009 , 64, 709-720	4.4	29
289	Wet milling of H-ZSM-5 zeolite and its effects on direct oxidation of benzene to phenol. <i>Applied Catalysis A: General</i> , 2007 , 327, 132-138	5.1	29
288	The Role of Particle Interactions on Suspension Rheology [Application to Submicron Grinding in Stirred Ball Mills. <i>Chemical Engineering and Technology</i> , 2003 , 26, 177-183	2	29
287	Carboxylate Ion Pairing with Alkali-Metal Ions for β -Lactoglobulin and Its Role on Aggregation and Interfacial Adsorption. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5505-17	3.4	28
286	Study of amphiphilic polyester micelles by hyper-rayleigh scattering: invertibility and phase transfer. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6338-43	3.4	28
285	Amphiphilic Invertible Polyesters as Reducing and Stabilizing Agents in the Formation of Metal Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1410-1414	4.8	28
284	First Studies on the Rheological Behavior of Suspensions in Ionic Liquids. <i>Chemical Engineering and Technology</i> , 2006 , 29, 1347-1354	2	28
283	Mechano-Chemical Changes of Nano Sized γ -Al ₂ O ₃ During Wet Dispersion in Stirred Ball Mills. <i>Particle and Particle Systems Characterization</i> , 2004 , 21, 31-38	3.1	28
282	Production of polyamide 11 microparticles for Additive Manufacturing by liquid-liquid phase separation and precipitation. <i>Chemical Engineering Science</i> , 2019 , 197, 11-25	4.4	28
281	Determination of the two-dimensional distributions of gold nanorods by multiwavelength analytical ultracentrifugation. <i>Nature Communications</i> , 2018 , 9, 4898	17.4	28
280	Liquid filtration of nanoparticles through track-etched membrane filters under unfavorable and different ionic strength conditions: Experiments and modeling. <i>Journal of Membrane Science</i> , 2017 , 524, 682-690	9.6	27
279	Magn Π -Phases in Anatase Strongly Promote Cocatalyst-Free Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2019 , 9, 3627-3632	13.1	27
278	Quantitative investigation of the fragmentation process and defect density evolution of oxo-functionalized graphene due to ultrasonication and milling. <i>Carbon</i> , 2016 , 96, 897-903	10.4	27
277	Correlation of Enhanced Strength and Internal Structure for Heat-Treated Submicron St β ber Silica Particles. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 664-674	3.1	27
276	Control of coating properties by tailored particle interactions: relation between suspension rheology and film structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 225, 49-61	5.1	27

275	Functionalization of steel surfaces with organic acids: Influence on wetting and corrosion behavior. <i>Applied Surface Science</i> , 2017 , 404, 326-333	6.7	26
274	In situ cracking of silica beads in the SEM and TEM [Effect of particle size on structure-property correlations. <i>Powder Technology</i> , 2015 , 270, 337-347	5.2	26
273	Surface Charging and Interfacial Water Structure of Amphoteric Colloidal Particles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10033-10042	3.8	26
272	Increasing flowability and bulk density of PE-HD powders by a dry particle coating process and impact on LBM processes. <i>Rapid Prototyping Journal</i> , 2015 , 21, 697-704	3.8	26
271	Influence of process parameters on breakage kinetics and grinding limit at the nanoscale. <i>AIChE Journal</i> , 2011 , 57, 1751-1758	3.6	26
270	Facile route to morphologically tailored silver patches on colloidal particles. <i>Langmuir</i> , 2010 , 26, 13564-74	4.1	26
269	Aerosol synthesis of silicon nanoparticles with narrow size distribution [Part 2: Theoretical analysis of the formation mechanism. <i>Journal of Aerosol Science</i> , 2010 , 41, 1008-1019	4.3	26
268	Second Harmonic Generation Spectroscopy as a Method for In Situ and Online Characterization of Particle Surface Properties. <i>Particle and Particle Systems Characterization</i> , 2006 , 23, 351-359	3.1	26
267	Local densification of a single micron sized silica sphere by uniaxial compression. <i>Scripta Materialia</i> , 2015 , 108, 84-87	5.6	25
266	Deciphering the Role of Impurities in Methylammonium Iodide and Their Impact on the Performance of Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600593	4.6	25
265	Generally applicable breakage functions derived from single particle comminution data. <i>Powder Technology</i> , 2009 , 194, 33-41	5.2	25
264	Microstructural evolution during deformation of tin dioxide nanoparticles in a comminution process. <i>Acta Materialia</i> , 2009 , 57, 3060-3071	8.4	25
263	Raman and FTIR spectroscopic study on the formation of the isomers MIL-68(Al) and MIL-53(Al).. <i>RSC Advances</i> , 2020 , 10, 7336-7348	3.7	24
262	Effect of polymer species and concentration on the production of mefenamic acid nanoparticles by media milling. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 98, 98-107	5.7	24
261	Painting by numbers: nanoparticle-based colorants in the post-empirical age. <i>Advanced Materials</i> , 2011 , 23, 2554-70	24	24
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259	2D analysis of polydisperse core-shell nanoparticles using analytical ultracentrifugation. <i>Analyst</i> , 2016 , 142, 206-217	5	23
258	Impact of formulation and operating parameters on particle size and grinding media wear in wet media milling of organic compounds [A case study for pyrene. <i>Advanced Powder Technology</i> , 2016 , 27, 2507-2519	4.6	23

257	Specific effects of Ca(2+) ions and molecular structure of β -lactoglobulin interfacial layers that drive macroscopic foam stability. <i>Soft Matter</i> , 2016 , 12, 5995-6004	3.6	23
256	Production of spherical semi-crystalline polycarbonate microparticles for Additive Manufacturing by liquid-liquid phase separation. <i>Powder Technology</i> , 2018 , 335, 275-284	5.2	23
255	Surface Functionalization of ZnO Nanorods with C60 Derivatives Carrying Phosphonic Acid Functionalities. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5561-5565	3.8	23
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