Flemming Besenbacher

List of Publications by Year in Descending Order

411 papers	32,285 citations	93 h-index	161 g-index
418 ext. papers	35,114 ext. citations	10.2 avg, IF	7.11 L-index

#	Paper	IF	Citations
411	Simultaneous increase of conductivity, active sites and structural strain by nitrogen injection for high-yield CO2 electro-hydrogenation to liquid fuel. *Applied Catalysis B: Environmental*, **2022**, 305, 121080	21.8	5
410	Au@MnSe Core-Shell Nanoagent Enabling Immediate Generation of Hydroxyl Radicals and Simultaneous Glutathione Deletion Free of Pre-Reaction for Chemodynamic-Photothermo-Photocatalytic Therapy with Significant Immune Response.. *Advanced Healthcare Materials*, **2022**, e2200041	10.1	0
409	Rationally Designed Metal Cocatalyst for Selective Photosynthesis of Bibenzyls via Dehalogenative C□ Homocoupling. *ACS Catalysis*, **2021**, 11, 4338-4348	13.1	8
408	Recent Progress in Emerging Two-Dimensional Transition Metal Carbides. *Nano-Micro Letters*, **2021**, 13, 183	19.5	24
407	Rechargeable Mg-Ion Full Battery System with High Capacity and High Rate. *ACS Applied Materials & Interfaces*, **2021**, 13, 40451-40459	9.5	6
406	Subsurface-Carbon-Induced Local Charge of Copper for an On-Surface Displacement Reaction. *Angewandte Chemie*, **2021**, 133, 23307	3.6	
405	Subsurface-Carbon-Induced Local Charge of Copper for an On-Surface Displacement Reaction. *Angewandte Chemie - International Edition*, **2021**, 60, 23123-23127	16.4	0
404	A biocompatible artificial tendril with a spontaneous 3D Janus multi-helix-perversion configuration. *Materials Chemistry Frontiers*, **2020**, 4, 2149-2156	7.8	5
403	Molecular recognition and homochirality preservation of guanine tetrads in the presence of melamine. *Nano Research*, **2020**, 13, 2427-2430	10	1
402	Photothermal conversion-coordinated Fenton-like and photocatalytic reactions of CuSe-Au Janus nanoparticles for tri-combination antitumor therapy. *Biomaterials*, **2020**, 255, 120167	15.6	41
401	Graphene-Like Covalent Organic Framework with a Wide Band Gap Synthesized On Surface via Stepwise Reactions. *Angewandte Chemie*, **2020**, 132, 16092-16096	3.6	
400	Graphene-Like Covalent Organic Framework with a Wide Band Gap Synthesized On Surface via Stepwise Reactions. *Angewandte Chemie - International Edition*, **2020**, 59, 15958-15962	16.4	5
399	Sulphur-doped carbon nanosheets derived from biomass as high-performance anode materials for sodium-ion batteries. *Nano Energy*, **2020**, 67, 104219	17.1	75
398	Reversing Interfacial Catalysis of Ambipolar WSe Single Crystal. *Advanced Science*, **2020**, 7, 1901382	13.6	75
397	Long-range ordered and atomic-scale control of graphene hybridization by photocycloaddition. *Nature Chemistry*, **2020**, 12, 1035-1041	17.6	19
396	Porous Ultrathin NiSe Nanosheet Networks on Nickel Foam for High-Performance Hybrid Supercapacitors. *ChemSusChem*, **2020**, 13, 260-266	8.3	26
395	Boosting Photocatalytic Hydrogen Production by Modulating Recombination Modes and Proton Adsorption Energy. *Journal of Physical Chemistry Letters*, **2019**, 10, 5381-5386	6.4	8

394	Nanostructured heterogeneous photo-catalysts for hydrogen production and water splitting: A comprehensive insight. *Applied Materials Today*, **2019**, 17, 159-182	6.6	30
393	Beyond imaging: Applications of atomic force microscopy for the study of Lithium-ion batteries. *Ultramicroscopy*, **2019**, 204, 34-48	3.1	20
392	Solid Base Bi O Br (OH) with Active Lattice Oxygen for the Efficient Photo-Oxidation of Primary Alcohols to Aldehydes. *Angewandte Chemie - International Edition*, **2019**, 58, 6265-6270	16.4	47
391	Interfacial icelike water local doping of graphene. *Nanoscale*, **2019**, 11, 19334-19340	7.7	9
390	Diameter-optimized high-order waveguide nanorods for fluorescence enhancement applied in ultrasensitive bioassays. *Nanoscale*, **2019**, 11, 14322-14329	7.7	16
389	Dual-phase molybdenum nitride nanorambutans for solar steam generation under one sun illumination. *Nano Energy*, **2019**, 57, 842-850	17.1	70
388	Direct investigation of charge transfer in neurons by electrostatic force microscopy. *Ultramicroscopy*, **2019**, 196, 24-32	3.1	6
387	One-step production of O-N-S co-doped three-dimensional hierarchical porous carbons for high-performance supercapacitors. *Nano Energy*, **2018**, 47, 547-555	17.1	374
386	Biowaste-Derived Hierarchical Porous Carbon Nanosheets for Ultrahigh Power Density Supercapacitors. *ChemSusChem*, **2018**, 11, 1678-1685	8.3	71
385	Multifunctional Bi@PPy-PEG Core-Shell Nanohybrids for Dual-Modal Imaging and Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 1605-1615	9.5	61
384	Xanthine Quartets on Au(111). *Journal of the American Chemical Society*, **2018**, 140, 54-57	16.4	15
383	Light-tuned selective photosynthesis of azo- and azoxy-aromatics using graphitic CN. *Nature Communications*, **2018**, 9, 60	17.4	101
382	Controllable etching of MoS2 basal planes for enhanced hydrogen evolution through the formation of active edge sites. *Nano Energy*, **2018**, 49, 634-643	17.1	166
381	Kinetics and thermodynamics of hydrogenation-dehydrogenation for Mg-25%TM (TM = Ti, Nb or V) composites synthesized by reactive ball milling in hydrogen. *International Journal of Hydrogen Energy*, **2018**, 43, 16804-16814	6.7	38
380	In vitro single-cell dissection revealing the interior structure of cable bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8517-8522	11.5	30
379	The ambipolar transport behavior of WSe2 transistors and its analogue circuits. *NPG Asia Materials*, **2018**, 10, 703-712	10.3	86
378	Three-dimensional hydrogen bonding between Landers and planar molecules facilitated by electrostatic interactions with Ni adatoms. *Chemical Communications*, **2018**, 54, 8845-8848	5.8	1
377	Phase-Transition Induced Conversion into a Photothermal Material: Quasi-Metallic WO2.9 Nanorods for Solar Water Evaporation and Anticancer Photothermal Therapy. *Angewandte Chemie*, **2018**, 130, 10826-10831	3.6	21

376	Phase-Transition Induced Conversion into a Photothermal Material: Quasi-Metallic WO Nanorods for Solar Water Evaporation and Anticancer Photothermal Therapy. *Angewandte Chemie - International Edition*, **2018**, 57, 10666-10671	16.4	75
375	Polyethylene glycol-modified cobalt sulfide nanosheets for high-performance photothermal conversion and photoacoustic/magnetic resonance imaging. *Nano Research*, **2018**, 11, 2436-2449	10	25
374	Dual-Stimuli Responsive Bismuth Nanoraspberries for Multimodal Imaging and Combined Cancer Therapy. *Nano Letters*, **2018**, 18, 6778-6788	11.5	84
373	Formation of Hypoxanthine Tetrad by Reaction with Sodium Chloride: From Planar to Stereo. *Angewandte Chemie*, **2018**, 130, 16247-16251	3.6	2
372	Formation of Hypoxanthine Tetrad by Reaction with Sodium Chloride: From Planar to Stereo. *Angewandte Chemie - International Edition*, **2018**, 57, 16015-16019	16.4	7
371	Efficient Solar-Driven Hydrogen Transfer by Bismuth-Based Photocatalyst with Engineered Basic Sites. *Journal of the American Chemical Society*, **2018**, 140, 16711-16719	16.4	35
370	Self-scrolling MoS metallic wires. *Nanoscale*, **2018**, 10, 18178-18185	7.7	70
369	Cobalt Phosphide Nanoparticles Applied as a Theranostic Agent for Multimodal Imaging and Anticancer Photothermal Therapy. *Particle and Particle Systems Characterization*, **2018**, 35, 1800127	3.1	16
368	Light responsive hybrid nanofibres for on-demand therapeutic drug and cell delivery. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2411-2420	4.4	18
367	Metal borohydrides and derivatives - synthesis, structure and properties. *Chemical Society Reviews*, **2017**, 46, 1565-1634	58.5	249
366	Nanotopography featured polycaprolactone/polyethyleneoxide microfibers modulate endothelial cell response. *Nanoscale*, **2017**, 9, 9218-9229	7.7	20
365	The 3D mechanical environment and chemical milieu influence the hMSC fibrogenesis and fibroblast-to-myofibroblast transition. *RSC Advances*, **2017**, 7, 20-25	3.7	4
364	Regulating Surficial Catalysis Mechanism of Copper Metal by Manipulating Reactive Intermediate for Growth of Homogenous Bernal-Stacked Bilayer Graphene. *Advanced Materials Interfaces*, **2017**, 4, 1700415	4.6	1
363	Steering Surface Reaction at Specific Sites with Self-Assembly Strategy. *ACS Nano*, **2017**, 11, 9397-9404	16.7	27
362	Biocompatible PEGylated bismuth nanocrystals: "All-in-one" theranostic agent with triple-modal imaging and efficient in vivo photothermal ablation of tumors. *Biomaterials*, **2017**, 141, 284-295	15.6	61
361	On-surface synthesis approach to preparing one-dimensional organometallic and poly-p-phenylene chains. *Materials Chemistry Frontiers*, **2017**, 1, 119-127	7.8	31
360	Design and mechanism of core-shell TiO nanoparticles as a high-performance photothermal agent. *Nanoscale*, **2017**, 9, 16183-16192	7.7	48
359	Highly porous PEGylated Bi2S3 nano-urchins as a versatile platform for in vivo triple-modal imaging, photothermal therapy and drug delivery. *Nanoscale*, **2016**, 8, 16005-16	7.7	76

358	Unravelling Site-Specific Photo-Reactions of Ethanol on Rutile TiO2(110). *Scientific Reports*, **2016**, 6, 21990	4.9	39
357	Thermal decomposition of sodium amide, NaNH, and sodium amide hydroxide composites, NaNH-NaOH. *Physical Chemistry Chemical Physics*, **2016**, 18, 25257-25264	3.6	14
356	Three-Dimensional Polydopamine Functionalized Coiled Microfibrous Scaffolds Enhance Human Mesenchymal Stem Cells Colonization and Mild Myofibroblastic Differentiation. *ACS Applied Materials & Interfaces*, **2016**, 8, 15864-73	9.5	55
355	Nanotechnology Education for the Global World: Training the Leaders of Tomorrow. *ACS Nano*, **2016**, 10, 5595-9	16.7	23
354	Mechanistic Insight into the Interaction Between a Titanium Dioxide Photocatalyst and Pd Cocatalyst for Improved Photocatalytic Performance. *ACS Catalysis*, **2016**, 6, 4239-4247	13.1	41
353	Identification of O-rich structures on platinum(111)-supported ultrathin iron oxide films. *Surface Science*, **2016**, 652, 261-268	1.8	22
352	Multifunctional Bismuth Selenide Nanocomposites for Antitumor Thermo-Chemotherapy and Imaging. *ACS Nano*, **2016**, 10, 984-97	16.7	199
351	Synthesis and decomposition of Li3Na(NH2)4 and investigations of Li-Na-N-H based systems for hydrogen storage. *Physical Chemistry Chemical Physics*, **2016**, 18, 1735-42	3.6	10
350	Synergistic Inhibitory Effect of Peptide-Organic Coassemblies on Amyloid Aggregation. *ACS Nano*, **2016**, 10, 4143-53	16.7	41
349	Artificial extracellular matrix delivers TGFb1 regulating myofibroblast differentiation. *RSC Advances* , **2016**, 6, 21922-21928	3.7	7
348	Fluoride concentration controlled TiO2 nanotubes: the interplay of microstructure and photocatalytic performance. *RSC Advances*, **2016**, 6, 18333-18339	3.7	16
347	Band gap narrowing of SnS2 superstructures with improved hydrogen production. *Journal of Materials Chemistry A*, **2016**, 4, 209-216	13	46
346	The preparation of a recyclable catalyst of silver nanoparticles dispersed in a mesoporous silica nanofiber matrix. *RSC Advances*, **2016**, 6, 65613-65618	3.7	10
345	Exploring the mechanisms of metal co-catalysts in photocatalytic reduction reactions: Is Ag a good candidate?. *Applied Catalysis A: General*, **2016**, 518, 213-220	5.1	14
344	Self-assembly of hydrogen-bonded supramolecular complexes of nucleic-acid-base and fatty-acid at the liquid-solid interface. *Physical Chemistry Chemical Physics*, **2016**, 18, 14168-71	3.6	18
343	Synergistic effect of topography, surface chemistry and conductivity of the electrospun nanofibrous scaffold on cellular response of PC12 cells. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 420-429	6	71
342	Multimodal Imaging-Guided Antitumor Photothermal Therapy and Drug Delivery Using Bismuth Selenide Spherical Sponge. *ACS Nano*, **2016**, 10, 9646-9658	16.7	157
341	Facile Synthesis of Single Crystal PtSe Nanosheets for Nanoscale Electronics. *Advanced Materials*, **2016**, 28, 10224-10229	24	246

340	Protein patterning by a DNA origami framework. *Nanoscale*, **2016**, 8, 15233-40	7.7	7
339	Three-dimensional scaffolding framework of porous carbon nanosheets derived from plant wastes for high-performance supercapacitors. *Nano Energy*, **2016**, 27, 377-389	17.1	304
338	Identification of a Novel Parallel β-Strand Conformation within Molecular Monolayer of Amyloid Peptide. *Advanced Science*, **2016**, 3, 1500369	13.6	22
337	Human-Serum-Albumin-Coated Prussian Blue Nanoparticles as pH-/Thermotriggered Drug-Delivery Vehicles for Cancer Thermochemotherapy. *Particle and Particle Systems Characterization*, **2016**, 33, 53-62	3.1	36
336	Hydrothermal Synthesis and in Situ Powder X-ray Diffraction Study of Bismuth-Substituted Ceria Nanoparticles. *Crystal Growth and Design*, **2015**, 15, 3628-3636	3.5	16
335	Trends in Syntheses, Structures, and Properties for Three Series of Ammine Rare-Earth Metal Borohydrides, M(BH4)3·nNH3 (M = Y, Gd, and Dy). *Inorganic Chemistry*, **2015**, 54, 7402-14	5.1	36
334	In Situ Detection of Active Edge Sites in Single-Layer MoS2 Catalysts. *ACS Nano*, **2015**, 9, 9322-30	16.7	116
333	Serum-induced degradation of 3D DNA box origami observed with high-speed atomic force microscopy. *Nano Research*, **2015**, 8, 2170-2178	10	20
332	Poly(norepinephrine) as a functional bio-interface for neuronal differentiation on electrospun fibers. *Physical Chemistry Chemical Physics*, **2015**, 17, 9446-53	3.6	32
331	Delivery of dexamethasone from electrospun PCL–PEO binary fibers and their effects on inflammation regulation. *RSC Advances*, **2015**, 5, 34166-34172	3.7	15
330	Scandium functionalized carbon aerogel: Synthesis of nanoparticles and structure of a new ScOCl and properties of NaAlH4 as a function of pore size. *Journal of Solid State Chemistry*, **2015**, 231, 190-197	3.3	5
329	Nanostructure and mechanical properties of the osteocyte lacunar-canalicular network-associated bone matrix revealed by quantitative nanomechanical mapping. *Nano Research*, **2015**, 8, 3250-3260	10	11
328	Ultraporous nanofeatured PCL-PEO microfibrous scaffolds enhance cell infiltration, colonization and myofibroblastic differentiation. *Nanoscale*, **2015**, 7, 14989-95	7.7	16
327	Routing of individual polymers in designed patterns. *Nature Nanotechnology*, **2015**, 10, 892-8	28.7	142
326	Synthesis of Nano- and Micro-Scale Topographies by Combining Colloidal Lithography and Glancing Angle Deposition (GLAD). *Advanced Engineering Materials*, **2015**, 17, 8-13	3.5	5
325	Mechanism and kinetics of early transition metal hydrides, oxides, and chlorides to enhance hydrogen release and uptake properties of MgH2. *Powder Diffraction*, **2015**, 30, S9-S15	1.8	17
324	Ammine Calcium and Strontium Borohydrides: Syntheses, Structures, and Properties. *ChemSusChem*, **2015**, 8, 3472-82	8.3	16
323	In Situ Cross-Linked PNIPAM/Gelatin Nanofibers for Thermo-Responsive Drug Release. *Macromolecular Materials and Engineering*, **2015**, 300, 1226-1231	3.9	37

322	Direct Visualization of Catalytically Active Sites at the FeO-Pt(111) Interface. *ACS Nano*, **2015**, 9, 7804-14	16.7	54
321	Tailoring the properties of ammine metal borohydrides for solid-state hydrogen storage. *ChemSusChem*, **2015**, 8, 1452-63	8.3	47
320	Coaxial electrospun poly(lactic acid)/silk fibroin nanofibers incorporated with nerve growth factor support the differentiation of neuronal stem cells. *RSC Advances*, **2015**, 5, 49838-49848	3.7	69
319	A self-assembled nanopatch with peptide-organic multilayers and mechanical properties. *Nanoscale* , **2015**, 7, 2250-4	7.7	13
318	Tweaking the composition of NiMoZn alloy electrocatalyst for enhanced hydrogen evolution reaction performance. *Nano Energy*, **2015**, 12, 9-18	17.1	99
317	Two-dimensional material confined water. *Accounts of Chemical Research*, **2015**, 48, 119-27	24.3	112
316	Unraveling the edge structures of platinum(111)-supported ultrathin FeO islands: the influence of oxidation state. *ACS Nano*, **2015**, 9, 573-83	16.7	32
315	Transition of chemically modified diphenylalanine peptide assemblies revealed by atomic force microscopy. *RSC Advances*, **2014**, 4, 7516	3.7	12
314	Building an appropriate active-site motif into a hydrogen-evolution catalyst with thiomolybdate [Mo3S13]2- clusters. *Nature Chemistry*, **2014**, 6, 248-53	17.6	602
313	Morphology and Atomic-Scale Structure of MoS2 Nanoclusters Synthesized with Different Sulfiding Agents. *Topics in Catalysis*, **2014**, 57, 207-214	2.3	34
312	Designer titania-supported Au-Pd nanoparticles for efficient photocatalytic hydrogen production. *ACS Nano*, **2014**, 8, 3490-7	16.7	249
311	Synthesis, Crystal Structure, Thermal Decomposition, and 11B MAS NMR Characterization of Mg(BH4)2(NH3BH3)2. *Journal of Physical Chemistry C*, **2014**, 118, 12141-12153	3.8	33
310	Formation of metastable, heterolytic H-pairs on the RuO2(110) surface. *Surface Science*, **2014**, 619, L1-L5	1.8	18
309	Electrocatalysis of water oxidation by H2O-capped iridium-oxide nanoparticles electrodeposited on spectroscopic graphite. *ChemPhysChem*, **2014**, 15, 2844-50	3.2	7
308	A surface coordination network based on copper adatom trimers. *Angewandte Chemie - International Edition*, **2014**, 53, 12955-9	16.4	58
307	Electrospun PCL/PEO coaxial fibers for basic fibroblast growth factor delivery. *Journal of Materials Chemistry B*, **2014**, 2, 8538-8546	7.3	42
306	Dexamethasone encapsulated coaxial electrospun PCL/PEO hollow microfibers for inflammation regulation. *RSC Advances*, **2014**, 4, 51537-51543	3.7	14
305	Formation of a G-quartet-Fe complex and modulation of electronic and magnetic properties of the Fe center. *ACS Nano*, **2014**, 8, 11799-805	16.7	32

304	Water clustering on nanostructured iron oxide films. *Nature Communications*, **2014**, 5, 4193	17.4	53
303	Ultraporous interweaving electrospun microfibers from PCL-PEO binary blends and their inflammatory responses. *Nanoscale*, **2014**, 6, 3392-402	7.7	39
302	Formation and sintering of Pt nanoparticles on vicinal rutile TiO2 surfaces. *Physical Chemistry Chemical Physics*, **2014**, 16, 21289-99	3.6	13
301	A high efficiency H2S gas sensor material: paper like Fe2O3/graphene nanosheets and structural alignment dependency of device efficiency. *Journal of Materials Chemistry A*, **2014**, 2, 6714-6717	13	79
300	Chiral induction with chiral conformational switches in the limit of low "sergeants to soldiers" ratio. *ACS Nano*, **2014**, 8, 8074-81	16.7	20
299	Hydrated human corneal stroma revealed by quantitative dynamic atomic force microscopy at nanoscale. *ACS Nano*, **2014**, 8, 6873-82	16.7	36
298	Vicinal Rutile TiO2 Surfaces and Their Interactions with O2. *Journal of Physical Chemistry C*, **2014**, 118, 3620-3628	3.8	12
297	Quantitative biomolecular imaging by dynamic nanomechanical mapping. *Chemical Society Reviews*, **2014**, 43, 7412-29	58.5	64
296	Molecular tethering effect of C-terminus of amyloid peptide a42. *ACS Nano*, **2014**, 8, 9503-10	16.7	31
295	Selective photocatalytic oxidation of benzene for the synthesis of phenol using engineered Au-Pd alloy nanoparticles supported on titanium dioxide. *Chemical Communications*, **2014**, 50, 12612-4	5.8	35
294	Nanoconfined NaAlH4: prolific effects from increased surface area and pore volume. *Nanoscale*, **2014**, 6, 599-607	7.7	39
293	Electrospun nanofibers-mediated on-demand drug release. *Advanced Healthcare Materials*, **2014**, 3, 1721-31	7.1	74
292	Evidence of Stranski-Krastanov growth at the initial stage of atmospheric water condensation. *Nature Communications*, **2014**, 5, 4837	17.4	52
291	The position of hydrophobic residues tunes peptide self-assembly. *Soft Matter*, **2014**, 10, 5656-61	3.6	12
290	Complex hydrides for hydrogen storage new perspectives. *Materials Today*, **2014**, 17, 122-128	21.8	328
289	Ternary compounds in the magnesium-titanium hydrogen storage system. *International Journal of Hydrogen Energy*, **2014**, 39, 9700-9708	6.7	10
288	Activation effects during hydrogen release and uptake of MgH2. *International Journal of Hydrogen Energy*, **2014**, 39, 9888-9892	6.7	12
287	The influence of crystallite size and crystallinity of anatase nanoparticles on the photo-degradation of phenol. *Journal of Catalysis*, **2014**, 310, 100-108	7.3	91

286	Boron–nitrogen based hydrides and reactive composites for hydrogen storage. *Materials Today*, **2014**, 17, 129-135	21.8	145
285	Ein Metall-organisches Netzwerk auf Basis von Cu-Adatom- Trimeren. *Angewandte Chemie*, **2014**, 126, 13169-13173	3.6	11
284	Identification of Cysteine-Rich Peptide-Fiber by Specific Cysteine-Au Nanoparticles Binding on Fiber Surface. *Advanced Materials Interfaces*, **2014**, 1, 1400133	4.6	5
283	Optimised photocatalytic hydrogen production using core-shell AuPd promoters with controlled shell thickness. *Physical Chemistry Chemical Physics*, **2014**, 16, 26638-44	3.6	14
282	Modulating aβ3-42 peptide assembly by graphene oxide. *Chemistry - A European Journal*, **2014**, 20, 7236-48	5.8	64
281	Atomic-Scale View on the H2O Formation Reaction from H2 on O-Rich RuO2(110). *Journal of Physical Chemistry C*, **2014**, 118, 27989-27997	3.8	10
280	Stabilization mechanism for the polar ZnO(0001̄)-O surface. *Physical Review B*, **2013**, 87,	3.3	67
279	Whole-Genome Expression Analysis of Human Mesenchymal Stromal Cells Exposed to Ultrasmooth Tantalum vs. Titanium Oxide Surfaces. *Cellular and Molecular Bioengineering*, **2013**, 6, 199-209	3.9	4
278	Growth of Ag and Au Nanoparticles on Reduced and Oxidized Rutile TiO2(110) Surfaces. *Topics in Catalysis*, **2013**, 56, 1460-1476	2.3	25
277	Optical regulation of protein adsorption and cell adhesion by photoresponsive GaN nanowires. *ACS Applied Materials & Interfaces*, **2013**, 5, 9816-22	9.5	28
276	Morphology and atomic-scale structure of single-layer WS2 nanoclusters. *Physical Chemistry Chemical Physics*, **2013**, 15, 15971-80	3.6	55
275	Engineered three-dimensional nanofibrous multi-lamellar structure for annulus fibrosus repair. *Journal of Materials Chemistry B*, **2013**, 1, 5462-5468	7.3	22
274	Mussel inspired surface functionalization of electrospun nanofibers for bio-applications. *Physical Chemistry Chemical Physics*, **2013**, 15, 17029-37	3.6	35
273	Electrospun UV-responsive supramolecular nanofibers from a cyclodextrin–azobenzene inclusion complex. *Journal of Materials Chemistry C*, **2013**, 1, 850-855	7.1	37
272	Size-dependent dissociation of carbon monoxide on cobalt nanoparticles. *Journal of the American Chemical Society*, **2013**, 135, 2273-8	16.4	176
271	Investigation of MBH4–VCl2, M = Li, Na or K. *International Journal of Hydrogen Energy*, **2013**, 38, 8376-8383	3.7	6
270	Structural insights into the intrinsic self-assembly of Par-3 N-terminal domain. *Structure*, **2013**, 21, 997-1006	5.6	26
269	Coexistence of ribbon and helical fibrils originating from hIAPP(20-29) revealed by quantitative nanomechanical atomic force microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2798-803	11.5	83

268	On-surface azide-alkyne cycloaddition on Cu(111): does it "click" in ultrahigh vacuum?. *Journal of the American Chemical Society*, **2013**, 135, 2136-9	16.4	130
267	Free radicals generated by tantalum implants antagonize the cytotoxic effect of doxorubicin. *International Journal of Pharmaceutics*, **2013**, 448, 214-20	6.5	6
266	Quantification of the interaction forces between metals and graphene by quantum chemical calculations and dynamic force measurements under ambient conditions. *ACS Nano*, **2013**, 7, 1646-51	16.7	60
265	In situ study of CO oxidation on HOPG-supported Pt nanoparticles. *ChemPhysChem*, **2013**, 14, 1553-7	3.2	12
264	Oligo(naphthylene□ethynylene) Molecular Rods. *European Journal of Organic Chemistry*, **2013**, 2013, 2813-2822	3.2	12
263	Mechanical reinforcement fibers produced by gel-spinning of poly-acrylic acid (PAA) and graphene oxide (GO) composites. *Nanoscale*, **2013**, 5, 6265-9	7.7	37
262	Rapid Synthesis of Porous, Mixed Phase Titania Films with Tailored Orientation of Rutile for Enhanced Photocatalytic Performance. *Journal of Physical Chemistry C*, **2013**, 117, 27039-27046	3.8	10
261	Structure of Stoichiometric and Oxygen-Rich Ultrathin FeO(111) Films Grown on Pd(111). *Journal of Physical Chemistry C*, **2013**, 117, 15155-15163	3.8	43
260	Isothermal hybridization kinetics of DNA assembly of two-dimensional DNA origami. *Small*, **2013**, 9, 2954-9	8.2	29
259	Facilitating the mechanical properties of a high-performance pH-sensitive membrane by cross-linking graphene oxide and polyacrylic acid. *Nanotechnology*, **2013**, 24, 335704	3.4	10
258	A 1.76V hybrid Zn-O2 biofuel cell with a fungal laccase-carbon cloth biocathode. *Electrochimica Acta* , **2012**, 62, 218-226	6.7	30
257	Guidance of stem cell fate on 2D patterned surfaces. *Biomaterials*, **2012**, 33, 6626-33	15.6	136
256	An investigation into the formation of annular aggregates of human islet amyloid polypeptide on tantalum oxide surfaces. *Chemistry - A European Journal*, **2012**, 18, 2493-7	4.8	5
255	Nanoconfined NaAlH4: Determination of Distinct Prolific Effects from Pore Size, Crystallite Size, and Surface Interactions. *Journal of Physical Chemistry C*, **2012**, 116, 21046-21051	3.8	47
254	Filamentous bacteria transport electrons over centimetre distances. *Nature*, **2012**, 491, 218-21	50.4	364
253	Atomic-scale insight into adsorption of sterically hindered dibenzothiophenes on MoS2 and Co□Mo□S hydrotreating catalysts. *Journal of Catalysis*, **2012**, 295, 146-154	7.3	96
252	Scanning ion conductance microscopy studies of amyloid fibrils at nanoscale. *Nanoscale*, **2012**, 4, 3105-10	7.7	27
251	2D amyloid aggregation of human islet amyloid polypeptide at the solid□quid interface. *Soft Matter*, **2012**, 8, 1616-1622	3.6	17

250	Direct visualization of transient thermal response of a DNA origami. *Journal of the American Chemical Society*, **2012**, 134, 9844-7	16.4	63
249	Ethanol Diffusion on Rutile TiO2(110) Mediated by H Adatoms. *Journal of Physical Chemistry Letters*, **2012**, 3, 283-8	6.4	33
248	Scanning tunneling microscopy reveals single-molecule insights into the self-assembly of amyloid fibrils. *ACS Nano*, **2012**, 6, 6882-9	16.7	26
247	Observation of molecular inhibition and binding structures of amyloid peptides. *Nanoscale*, **2012**, 4, 1895-909	7.7	34
246	Enhanced catalytic activity of lipase encapsulated in PCL nanofibers. *Langmuir*, **2012**, 28, 6157-62	4	38
245	Direct force producing uniform ultra-thin chitosan films by atomic force microscopy. *RSC Advances*, **2012**, 2, 2732	3.7	6
244	Promotion of phenol photodecomposition over TiO2 using Au, Pd, and Au-Pd nanoparticles. *ACS Nano*, **2012**, 6, 6284-92	16.7	225
243	Accumulation of magnetic iron oxide nanoparticles coated with variably sized polyethylene glycol in murine tumors. *Nanoscale*, **2012**, 4, 2352-61	7.7	54
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