

Chan Beum Park

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211
papers

11,755
citations

58
h-index

101
g-index

240
ext. papers

13,388
ext. citations

10.4
avg, IF

6.91
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 211 | Highly photoactive, low bandgap TiO ₂ nanoparticles wrapped by graphene. <i>Advanced Materials</i> , 2012 , 24, 1084-8 | 24 | 783 |
| 210 | Mussel-Inspired Polydopamine Coating as a Universal Route to Hydroxyapatite Crystallization. <i>Advanced Functional Materials</i> , 2010 , 20, 2132-2139 | 15.6 | 600 |
| 209 | General functionalization route for cell adhesion on non-wetting surfaces. <i>Biomaterials</i> , 2010 , 31, 2535-41 | 15.6 | 546 |
| 208 | Human endothelial cell growth on mussel-inspired nanofiber scaffold for vascular tissue engineering. <i>Biomaterials</i> , 2010 , 31, 9431-7 | 15.6 | 312 |
| 207 | Trehalose differentially inhibits aggregation and neurotoxicity of beta-amyloid 40 and 42. <i>Neurobiology of Disease</i> , 2005 , 20, 74-81 | 7.5 | 266 |
| 206 | Spatial control of cell adhesion and patterning through mussel-inspired surface modification by polydopamine. <i>Langmuir</i> , 2010 , 26, 15104-8 | 4 | 205 |
| 205 | Myoblast differentiation on graphene oxide. <i>Biomaterials</i> , 2013 , 34, 2017-23 | 15.6 | 202 |
| 204 | Graphene-based chemiluminescence resonance energy transfer for homogeneous immunoassay. <i>ACS Nano</i> , 2012 , 6, 2978-83 | 16.7 | 191 |
| 203 | Self-assembled light-harvesting peptide nanotubes for mimicking natural photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 517-20 | 16.4 | 189 |
| 202 | Biologically inspired pteridine redox centres for rechargeable batteries. <i>Nature Communications</i> , 2014 , 5, 5335 | 17.4 | 188 |
| 201 | Metal ions differentially influence the aggregation and deposition of Alzheimer's beta-amyloid on a solid template. <i>Biochemistry</i> , 2007 , 46, 6118-25 | 3.2 | 184 |
| 200 | Inhibition of insulin amyloid formation by small stress molecules. <i>FEBS Letters</i> , 2004 , 564, 121-5 | 3.8 | 179 |
| 199 | Synergic effects of nanofiber alignment and electroactivity on myoblast differentiation. <i>Biomaterials</i> , 2012 , 33, 6098-104 | 15.6 | 176 |
| 198 | Organic nanohybrids for fast and sustainable energy storage. <i>Advanced Materials</i> , 2014 , 26, 2558-65 | 24 | 174 |
| 197 | Photobiocatalysis: Activating Redox Enzymes by Direct or Indirect Transfer of Photoinduced Electrons. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7958-7985 | 16.4 | 174 |
| 196 | Carbon-based nanomaterials for tissue engineering. <i>Advanced Healthcare Materials</i> , 2013 , 2, 244-60 | 10.1 | 160 |
| 195 | Photoelectrochemical Reduction of Carbon Dioxide to Methanol through a Highly Efficient Enzyme Cascade. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3827-3832 | 16.4 | 157 |

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| 194 | Quinone and its derivatives for energy harvesting and storage materials. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11179-11202 | 13 | 154 |
| 193 | Metabolizing enzyme toxicology assay chip (MetaChip) for high-throughput microscale toxicity analyses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 983-7-5 | 17.5 | 154 |
| 192 | Graphene-biomineral hybrid materials. <i>Advanced Materials</i> , 2011 , 23, 2009-14 | 24 | 151 |
| 191 | High-Temperature Self-Assembly of Peptides into Vertically Well-Aligned Nanowires by Aniline Vapor. <i>Advanced Materials</i> , 2008 , 20, 3754-3758 | 24 | 146 |
| 190 | Synthesis of diphenylalanine/cobalt oxide hybrid nanowires and their application to energy storage. <i>ACS Nano</i> , 2010 , 4, 159-64 | 16.7 | 135 |
| 189 | Beta-Sheet-Forming, Self-Assembled Peptide Nanomaterials towards Optical, Energy, and Healthcare Applications. <i>Small</i> , 2015 , 11, 3623-40 | 11 | 133 |
| 188 | Rational design and engineering of quantum-dot-sensitized TiO ₂ nanotube arrays for artificial photosynthesis. <i>Advanced Materials</i> , 2011 , 23, 1883-8 | 24 | 131 |
| 187 | Photoluminescent Peptide Nanotubes. <i>Advanced Materials</i> , 2009 , 21, 1577-1581 | 24 | 120 |
| 186 | Mineralization of self-assembled peptide nanofibers for rechargeable lithium ion batteries. <i>Advanced Materials</i> , 2010 , 22, 5537-41 | 24 | 115 |
| 185 | Redox cofactor from biological energy transduction as molecularly tunable energy-storage compound. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8322-8 | 16.4 | 113 |
| 184 | Coupling photocatalysis and redox biocatalysis toward biocatalyzed artificial photosynthesis. <i>Chemistry - A European Journal</i> , 2013 , 19, 4392-406 | 4.8 | 104 |
| 183 | High stability of self-assembled peptide nanowires against thermal, chemical, and proteolytic attacks. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 221-30 | 4.9 | 103 |
| 182 | Dopamine-induced mineralization of calcium carbonate vaterite microspheres. <i>Langmuir</i> , 2010 , 26, 14730-6 | 4 | 99 |
| 181 | Self-assembled, photoluminescent peptide hydrogel as a versatile platform for enzyme-based optical biosensors. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 1860-5 | 11.8 | 97 |
| 180 | Nanobiocatalytic assemblies for artificial photosynthesis. <i>Current Opinion in Biotechnology</i> , 2014 , 28, 1-9 | 11.4 | 95 |
| 179 | Polydopamine as a biomimetic electron gate for artificial photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6364-8 | 16.4 | 94 |
| 178 | Carbon nanotube-amorphous FePO ₄ core-shell nanowires as cathode material for Li ion batteries. <i>Chemical Communications</i> , 2010 , 46, 7409-11 | 5.8 | 94 |
| 177 | Mussel-inspired transformation of CaCO ₃ to bone minerals. <i>Biomaterials</i> , 2010 , 31, 6628-34 | 15.6 | 93 |

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|-----|--|------|----|
| 176 | Ectoine and hydroxyectoine inhibit aggregation and neurotoxicity of Alzheimer's beta-amyloid. <i>FEBS Letters</i> , 2005 , 579, 4775-80 | 3.8 | 93 |
| 175 | Synthesis of diphenylalanine/polyaniline core/shell conducting nanowires by peptide self-assembly. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4820-3 | 16.4 | 89 |
| 174 | Multi-electron redox phenazine for ready-to-charge organic batteries. <i>Green Chemistry</i> , 2017 , 19, 2980-2985 | 16.4 | 84 |
| 173 | Bio-Inspired Synthesis of Minerals for Energy, Environment, and Medicinal Applications. <i>Advanced Functional Materials</i> , 2013 , 23, 10-25 | 15.6 | 83 |
| 172 | Self-assembly of semiconducting photoluminescent peptide nanowires in the vapor phase. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1164-7 | 16.4 | 82 |
| 171 | Eosin Y-sensitized artificial photosynthesis by highly efficient visible-light-driven regeneration of nicotinamide cofactor. <i>ChemBioChem</i> , 2009 , 10, 1621-4 | 3.8 | 82 |
| 170 | Photonic Carbon Dots as an Emerging Nanoagent for Biomedical and Healthcare Applications. <i>ACS Nano</i> , 2020 , 14, 6470-6497 | 16.7 | 82 |
| 169 | Screening Xanthene Dyes for Visible Light-Driven Nicotinamide Adenine Dinucleotide Regeneration and Photoenzymatic Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 2589-2594 | 5.6 | 81 |
| 168 | Mussel-inspired functionalization of carbon nanotubes for hydroxyapatite mineralization. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8848 | 16.4 | 80 |
| 167 | Insulin amyloid fibrillation at above 100 degrees C: new insights into protein folding under extreme temperatures. <i>Protein Science</i> , 2004 , 13, 2429-36 | 6.3 | 77 |
| 166 | Aluminum Nanoarrays for Plasmon-Enhanced Light Harvesting. <i>ACS Nano</i> , 2015 , 9, 6206-13 | 16.7 | 70 |
| 165 | Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10595-10599 | 16.4 | 69 |
| 164 | Cofactor-free light-driven whole-cell cytochrome P450 catalysis. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 969-73 | 16.4 | 67 |
| 163 | Electrochemical regeneration of NADH enhanced by platinum nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1749-52 | 16.4 | 67 |
| 162 | Photoexcited Porphyrins as a Strong Suppressor of Amyloid Aggregation and Synaptic Toxicity. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11472-6 | 16.4 | 66 |
| 161 | Bio-inspired fabrication of superhydrophobic surfaces through peptide self-assembly. <i>Soft Matter</i> , 2009 , 5, 2717 | 3.6 | 63 |
| 160 | Surface plasmon resonance analysis of Alzheimer's beta-amyloid aggregation on a solid surface: from monomers to fully-grown fibrils. <i>Analytical Chemistry</i> , 2008 , 80, 2400-7 | 7.8 | 63 |
| 159 | Photoenzymatic synthesis through sustainable NADH regeneration by SiO ₂ -supported quantum dots. <i>Chemical Communications</i> , 2011 , 47, 4643-5 | 5.8 | 62 |

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|-----|---|------|----|
| 158 | Cofactor-Free, Direct Photoactivation of Enoate Reductases for the Asymmetric Reduction of C=C Bonds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8681-8685 | 16.4 | 61 |
| 157 | Biocatalytic C=C Bond Reduction through Carbon Nanodot-Sensitized Regeneration of NADH Analogues. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13825-13828 | 16.4 | 60 |
| 156 | Mussel-inspired plasmonic nanohybrids for light harvesting. <i>Advanced Materials</i> , 2014 , 26, 4463-8 | 24 | 60 |
| 155 | Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. <i>Nanotechnology</i> , 2011 , 22, 494020 | 3.4 | 60 |
| 154 | CdTe, CdSe, and CdS nanocrystals for highly efficient regeneration of nicotinamide cofactor under visible light. <i>Small</i> , 2010 , 6, 922-6 | 11 | 59 |
| 153 | Unbiased biocatalytic solar-to-chemical conversion by FeOOH/BiVO/perovskite tandem structure. <i>Nature Communications</i> , 2018 , 9, 4208 | 17.4 | 58 |
| 152 | Bone-like peptide/hydroxyapatite nanocomposites assembled with multi-level hierarchical structures. <i>Soft Matter</i> , 2011 , 7, 7201 | 3.6 | 57 |
| 151 | Enzymatic photosynthesis of formate from carbon dioxide coupled with highly efficient photoelectrochemical regeneration of nicotinamide cofactors. <i>Green Chemistry</i> , 2016 , 18, 5989-5993 | 10 | 56 |
| 150 | Photo-induced inhibition of Alzheimer's Amyloid aggregation in vitro by rose bengal. <i>Biomaterials</i> , 2015 , 38, 43-9 | 15.6 | 55 |
| 149 | Continuous 3D Titanium Nitride Nanoshell Structure for Solar-Driven Unbiased Biocatalytic CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2019 , 9, 1900029 | 21.8 | 54 |
| 148 | Solar energy in production of L-glutamate through visible light active photocatalyst-redox enzyme coupled bioreactor. <i>Chemical Communications</i> , 2008 , 5423-5 | 5.8 | 54 |
| 147 | Photoactive g-C ₃ N ₄ Nanosheets for Light-Induced Suppression of Alzheimer's Amyloid Aggregation and Toxicity. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1560-5 | 10.1 | 54 |
| 146 | Self-Assembled Light-Harvesting Peptide Nanotubes for Mimicking Natural Photosynthesis. <i>Angewandte Chemie</i> , 2012 , 124, 532-535 | 3.6 | 51 |
| 145 | Zn-containing porphyrin as a biomimetic light-harvesting molecule for biocatalyzed artificial photosynthesis. <i>Chemical Communications</i> , 2011 , 47, 10227-9 | 5.8 | 51 |
| 144 | Gold nanoparticle enlargement coupled with fluorescence quenching for highly sensitive detection of analytes. <i>Langmuir</i> , 2009 , 25, 13302-5 | 4 | 51 |
| 143 | Clinically accurate diagnosis of Alzheimer's disease via multiplexed sensing of core biomarkers in human plasma. <i>Nature Communications</i> , 2020 , 11, 119 | 17.4 | 51 |
| 142 | Solid-Phase Growth of Nanostructures from Amorphous Peptide Thin Film: Effect of Water Activity and Temperature. <i>Chemistry of Materials</i> , 2008 , 20, 4284-4290 | 9.6 | 49 |
| 141 | Carbon Nanotube/Graphitic Carbon Nitride Hybrid Films for Flavoenzyme-Catalyzed Photoelectrochemical Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705232 | 15.6 | 48 |

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|-----|--|------|----|
| 140 | Self-Assembled Peptide-Carbon Nitride Hydrogel as a Light-Responsive Scaffold Material. <i>Biomacromolecules</i> , 2017 , 18, 3551-3556 | 6.9 | 47 |
| 139 | Synthesis of graphene-wrapped CuO hybrid materials by CO ₂ mineralization. <i>Green Chemistry</i> , 2012 , 14, 2391 | 10 | 47 |
| 138 | Rupture of the cell envelope by decompression of the deep-sea methanogen <i>Methanococcus jannaschii</i> . <i>Applied and Environmental Microbiology</i> , 2002 , 68, 1458-63 | 4.8 | 47 |
| 137 | Carbon Nanodot-Sensitized Modulation of Alzheimer's β -Amyloid Self-Assembly, Disassembly, and Toxicity. <i>Small</i> , 2017 , 13, 1700983 | 11 | 45 |
| 136 | Self-Assembly of Metalloporphyrins into Light-Harvesting Peptide Nanofiber Hydrogels for Solar Water Oxidation. <i>Small</i> , 2014 , 10, 1272-1277 | 11 | 45 |
| 135 | Expanding the Spectrum of Light-Driven Peroxygenase Reactions. <i>ACS Catalysis</i> , 2019 , 9, 890-894 | 13.1 | 45 |
| 134 | Photoelectroenzymatic Oxyfunctionalization on Flavin-Hybridized Carbon Nanotube Electrode Platform. <i>ACS Catalysis</i> , 2017 , 7, 1563-1567 | 13.1 | 44 |
| 133 | Synthesis of Ni-based co-catalyst functionalized W:BiVO ₄ nanofibers for solar water oxidation. <i>Green Chemistry</i> , 2016 , 18, 944-950 | 10 | 42 |
| 132 | A microfluidic system incorporated with peptide/Pd nanowires for heterogeneous catalytic reactions. <i>Lab on A Chip</i> , 2011 , 11, 378-80 | 7.2 | 42 |
| 131 | Rattle-Structured Upconversion Nanoparticles for Near-IR-Induced Suppression of Alzheimer's β -Amyloid Aggregation. <i>Small</i> , 2017 , 13, 1603139 | 11 | 41 |
| 130 | Inhibition of beta-amyloid peptide aggregation and neurotoxicity by alpha-d-mannosylglycerate, a natural extremolyte. <i>Peptides</i> , 2008 , 29, 578-84 | 3.8 | 41 |
| 129 | "Tree to Bone": Lignin/Polycaprolactone Nanofibers for Hydroxyapatite Biomineralization. <i>Biomacromolecules</i> , 2019 , 20, 2684-2693 | 6.9 | 40 |
| 128 | Cytochrome P450-catalyzed O-dealkylation coupled with photochemical NADPH regeneration. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 383-90 | 4.9 | 40 |
| 127 | Visible light-driven NADH regeneration sensitized by proflavine for biocatalysis. <i>ChemBioChem</i> , 2012 , 13, 1278-82 | 3.8 | 40 |
| 126 | Shedding Light on Alzheimer's β -Amyloidosis: Photosensitized Methylene Blue Inhibits Self-Assembly of β -Amyloid Peptides and Disintegrates Their Aggregates. <i>Scientific Reports</i> , 2017 , 7, 7523 | 4.9 | 38 |
| 125 | Biomimetic artificial photosynthesis by light-harvesting synthetic wood. <i>ChemSusChem</i> , 2011 , 4, 581-6 | 8.3 | 38 |
| 124 | Photobiokatalyse: Aktivierung von Redoxenzymen durch direkten oder indirekten Transfer photoinduzierter Elektronen. <i>Angewandte Chemie</i> , 2018 , 130, 8086-8116 | 3.6 | 38 |
| 123 | Cascading g-C ₃ N ₄ and Peroxygenases for Selective Oxyfunctionalization Reactions. <i>ACS Catalysis</i> , 2019 , 9, 7409-7417 | 13.1 | 37 |

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| 122 | Biocatalytic photosynthesis with water as an electron donor. <i>Chemistry - A European Journal</i> , 2014 , 20, 12020-5 | 4.8 | 37 |
| 121 | Small stress molecules inhibit aggregation and neurotoxicity of prion peptide 106-126. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 365, 808-13 | 3.4 | 37 |
| 120 | Photoelectrochemical Reduction of Carbon Dioxide to Methanol through a Highly Efficient Enzyme Cascade. <i>Angewandte Chemie</i> , 2017 , 129, 3885-3890 | 3.6 | 36 |
| 119 | Photosensitizing materials and platforms for light-triggered modulation of Alzheimer's β Amyloid self-assembly. <i>Biomaterials</i> , 2019 , 190-191, 121-132 | 15.6 | 36 |
| 118 | Shedding light on biocatalysis: photoelectrochemical platforms for solar-driven biotransformation. <i>Current Opinion in Chemical Biology</i> , 2019 , 49, 122-129 | 9.7 | 35 |
| 117 | Sunlight-assisted, biocatalytic formate synthesis from CO ₂ and water using silicon-based photoelectrochemical cells. <i>Chemical Communications</i> , 2016 , 52, 9723-6 | 5.8 | 33 |
| 116 | Bi-functional RuO ₂ -Co ₃ O ₄ core-shell nanofibers as a multi-component one-dimensional water oxidation catalyst. <i>Chemical Communications</i> , 2013 , 49, 9725-7 | 5.8 | 33 |
| 115 | Artificial photosynthesis on a chip: microfluidic cofactor regeneration and photoenzymatic synthesis under visible light. <i>Lab on A Chip</i> , 2011 , 11, 2309-11 | 7.2 | 33 |
| 114 | NADH-Free Electroenzymatic Reduction of CO ₂ by Conductive Hydrogel-Conjugated Formate Dehydrogenase. <i>ACS Catalysis</i> , 2019 , 9, 5584-5589 | 13.1 | 32 |
| 113 | Selective detection of neurotoxin by photoluminescent peptide nanotubes. <i>Small</i> , 2011 , 7, 718-22 | 11 | 32 |
| 112 | High-throughput analysis of Alzheimer's β amyloid aggregation using a microfluidic self-assembly of monomers. <i>Analytical Chemistry</i> , 2009 , 81, 2751-9 | 7.8 | 32 |
| 111 | Electrochemical regeneration of NADH using conductive vanadia-silica xerogels. <i>Biotechnology Progress</i> , 2007 , 23, 293-6 | 2.8 | 32 |
| 110 | Multifunctional carbon dots as a therapeutic nanoagent for modulating Cu(ii)-mediated β amyloid aggregation. <i>Nanoscale</i> , 2019 , 11, 6297-6306 | 7.7 | 31 |
| 109 | Silica-coated alginate beads for in vitro protein synthesis via transcription/translation machinery encapsulation. <i>Journal of Biotechnology</i> , 2009 , 143, 183-9 | 3.7 | 31 |
| 108 | Nicotinamide adenine dinucleotide as a photocatalyst. <i>Science Advances</i> , 2019 , 5, eaax0501 | 14.3 | 30 |
| 107 | Template-directed self-assembly and growth of insulin amyloid fibrils. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 848-55 | 4.9 | 30 |
| 106 | Light-Harvesting Dye-Alginate Hydrogel for Solar-Driven, Sustainable Biocatalysis of Asymmetric Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5632-5637 | 8.3 | 29 |
| 105 | Human Urine-Fueled Light-Driven NADH Regeneration for Redox Biocatalysis. <i>ChemSusChem</i> , 2016 , 9, 1559-64 | 8.3 | 29 |

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| 104 | GrapheneBh-complex hydrogels for boosting redox biocatalysis. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1040-1044 | 13 | 29 |
| 103 | Bio-inspired mineralization of CO ₂ gas to hollow CaCO ₃ microspheres and bone hydroxyapatite/polymer composites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11070 | | 28 |
| 102 | Amorphous Carbon Nitride as a Robust Photocatalyst for Biocatalytic Solar-to-Chemical Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2545-2552 | 8.3 | 28 |
| 101 | Light-triggered dissociation of self-assembled Bamyloid aggregates into small, nontoxic fragments by ruthenium (II) complex. <i>Acta Biomaterialia</i> , 2018 , 67, 147-155 | 10.8 | 28 |
| 100 | Crystalline IrO ₂ -decorated TiO ₂ nanofiber scaffolds for robust and sustainable solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5610 | 13 | 27 |
| 99 | Graphene-oxide-based immunosensing through fluorescence quenching by peroxidase-catalyzed polymerization. <i>Small</i> , 2012 , 8, 1994-9 | 11 | 27 |
| 98 | Synthesis of visible light-active CeO ₂ sheets via mussel-inspired CaCO ₃ mineralization. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 241-245 | 13 | 27 |
| 97 | Ex situ atomic force microscopy analysis of beta-amyloid self-assembly and deposition on a synthetic template. <i>Langmuir</i> , 2006 , 22, 6977-85 | 4 | 27 |
| 96 | Cofactor-Free, Direct Photoactivation of Enoate Reductases for the Asymmetric Reduction of C=C Bonds. <i>Angewandte Chemie</i> , 2017 , 129, 8807-8811 | 3.6 | 26 |
| 95 | Piezobiocatalysis: Ultrasound-Driven Enzymatic Oxyfunctionalization of C=C Bonds. <i>ACS Catalysis</i> , 2020 , 10, 5236-5242 | 13.1 | 26 |
| 94 | Extremely Stable Luminescent Crosslinked Perovskite Nanoparticles under Harsh Environments over 1.5 Years. <i>Advanced Materials</i> , 2021 , 33, e2005255 | 24 | 26 |
| 93 | "Waste to Wealth": Lignin as a Renewable Building Block for Energy Harvesting/Storage and Environmental Remediation. <i>ChemSusChem</i> , 2020 , 13, 2807-2827 | 8.3 | 25 |
| 92 | Chemical sensing platforms for detecting trace-level Alzheimer's core biomarkers. <i>Chemical Society Reviews</i> , 2020 , 49, 5446-5472 | 58.5 | 25 |
| 91 | Combined effect of mussel-inspired surface modification and topographical cues on the behavior of skeletal myoblasts. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1445-50 | 10.1 | 25 |
| 90 | Protein micropatterning on bifunctional organic-inorganic sol-gel hybrid materials. <i>Langmuir</i> , 2007 , 23, 4732-6 | 4 | 25 |
| 89 | Cofactor-Free Light-Driven Whole-Cell Cytochrome P450 Catalysis. <i>Angewandte Chemie</i> , 2015 , 127, 983-987 | 9.87 | 24 |
| 88 | Bias-Free In Situ H ₂ O ₂ Generation in a Photovoltaic-Photoelectrochemical Tandem Cell for Biocatalytic Oxyfunctionalization. <i>ACS Catalysis</i> , 2019 , 9, 10562-10566 | 13.1 | 24 |
| 87 | In situ growth of gold nanoparticles by enzymatic glucose oxidation within alginate gel matrix. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 210-4 | 4.9 | 24 |

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|----|--|------|----|
| 86 | Photomodulating Carbon Dots for Spatiotemporal Suppression of Alzheimer's β -Amyloid Aggregation. <i>ACS Nano</i> , 2020 , | 16.7 | 24 |
| 85 | New platform for cytochrome p450 reaction combining in situ immobilization on biopolymer. <i>Bioconjugate Chemistry</i> , 2014 , 25, 2101-4 | 6.3 | 22 |
| 84 | Redox Cofactor from Biological Energy Transduction as Molecularly Tunable Energy-Storage Compound. <i>Angewandte Chemie</i> , 2013 , 125, 8480-8486 | 3.6 | 22 |
| 83 | Carboxymethyl cellulose-templated synthesis of hierarchically structured metal oxides. <i>Green Chemistry</i> , 2015 , 17, 4167-4172 | 10 | 21 |
| 82 | Piezoelectric materials for ultrasound-driven dissociation of Alzheimer's β -Amyloid aggregate structure. <i>Biomaterials</i> , 2020 , 255, 120165 | 15.6 | 21 |
| 81 | Solvent-Free Photobiocatalytic Hydroxylation of Cyclohexane. <i>ChemCatChem</i> , 2020 , 12, 4009-4013 | 5.2 | 21 |
| 80 | A hematite-based photoelectrochemical platform for visible light-induced biosensing. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4483-4486 | 7.3 | 21 |
| 79 | Near-infrared-light-driven artificial photosynthesis by nanobiocatalytic assemblies. <i>Chemistry - A European Journal</i> , 2014 , 20, 3584-8 | 4.8 | 21 |
| 78 | Microfluidic self-assembly of insulin monomers into amyloid fibrils on a solid surface. <i>Langmuir</i> , 2008 , 24, 7068-71 | 4 | 21 |
| 77 | Self-Assembly of Semiconducting Photoluminescent Peptide Nanowires in the Vapor Phase. <i>Angewandte Chemie</i> , 2011 , 123, 1196-1199 | 3.6 | 20 |
| 76 | Photoactive Bismuth Vanadate Structure for Light-Triggered Dissociation of Alzheimer's β -Amyloid Aggregates. <i>Advanced Functional Materials</i> , 2018 , 28, 1802813 | 15.6 | 19 |
| 75 | Serum-stable quantum dot-protein hybrid nanocapsules for optical bio-imaging. <i>Nanotechnology</i> , 2014 , 25, 175702 | 3.4 | 19 |
| 74 | Highly accelerated self-assembly and fibrillation of prion peptides on solid surfaces. <i>Langmuir</i> , 2008 , 24, 13822-7 | 4 | 19 |
| 73 | Water oxidation-coupled, photoelectrochemical redox biocatalysis toward mimicking natural photosynthesis. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 311-317 | 21.8 | 18 |
| 72 | Silicon nanowire photocathodes for light-driven electroenzymatic synthesis. <i>ChemSusChem</i> , 2014 , 7, 3007-11 | 8.3 | 18 |
| 71 | Biocatalyzed artificial photosynthesis by hydrogen-terminated silicon nanowires. <i>ChemSusChem</i> , 2012 , 5, 2129-32, 2089 | 8.3 | 18 |
| 70 | Constant-volume fed-batch operation for high density cultivation of hyperthermophilic aerobes. <i>Biotechnology Letters</i> , 1997 , 11, 277-281 | | 17 |
| 69 | Coenzyme analogs: excellent substitutes (not poor imitations) for electrochemical regeneration. <i>Chemical Communications</i> , 2011 , 47, 12538-40 | 5.8 | 16 |

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|----|---|------|----|
| 68 | Self-adhesive graphene oxide-wrapped TiO ₂ nanoparticles for UV-activated colorimetric oxygen detection. <i>Sensors and Actuators B: Chemical</i> , 2015 , 213, 322-328 | 8.5 | 15 |
| 67 | Silica Nanodepletors: Targeting and Clearing Alzheimer's β -Amyloid Plaques. <i>Advanced Functional Materials</i> , 2020 , 30, 1910475 | 15.6 | 15 |
| 66 | Artificial electron carriers for photoenzymatic synthesis under visible light. <i>Chemistry - A European Journal</i> , 2012 , 18, 5490-5 | 4.8 | 15 |
| 65 | Microfluidic dissociation and clearance of Alzheimer's β -amyloid aggregates. <i>Biomaterials</i> , 2010 , 31, 6789-95 | 15.6 | 15 |
| 64 | Biocatalytic C=C Bond Reduction through Carbon Nanodot-Sensitized Regeneration of NADH Analogues. <i>Angewandte Chemie</i> , 2018 , 130, 14021-14024 | 3.6 | 14 |
| 63 | Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie</i> , 2018 , 130, 10755-10759 | 3.6 | 14 |
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