# Paul K Chu

List of Publications by Year
in descending order

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| 1,462 | 72,253 | 764 | 2439 |
|---|---|---|---|
| papers | citations | 119 h-index | 197 g-index |

| 1470 | 1470 | 1470 | 60323 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Characterization of amorphous and nanocrystalline carbon films. Materials Chemistry and Physics, 2006, 96, 253-277. | 2.0 | 967 |
| 2 | Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. Angewandte Chemie - International Edition, 2015, 54, 11526-11530. | 7.2 | 906 |
| 3 | From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. Advanced Functional Materials, 2015, 25, 6996-7002. | 7.8 | 862 |
| 4 | Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. Nature Communications, 2016, 7, 12967. | 5.8 | 835 |
| 5 | Antibacterial coatings on titanium implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 470-480. | 1.6 | 732 |
| 6 | Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO<sub>3</sub><sup>2â€“</sup>-Doped Bi<sub>2</sub>O<sub>2</sub>CO<sub>3</sub>. ACS Catalysis, 2015, 5, 4094-4103. | 5.5 | 690 |
| 7 | Fabrication of Multiple Heterojunctions with Tunable Visible-Light-Active Photocatalytic Reactivity in BiOBrâ€“BiOI Full-Range Composites Based on Microstructure Modulation and Band Structures. ACS Applied Materials & Interfaces, 2015, 7, 482-492. | 4.0 | 671 |
| 8 | Antibacterial nano-structured titania coating incorporated with silver nanoparticles. Biomaterials, 2011, 32, 5706-5716. | 5.7 | 670 |
| 9 | Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. Advanced Materials, 2008, 20, 4085-4090. | 11.1 | 608 |
| 10 | Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. ACS Nano, 2017, 11, 9010-9021. | 7.3 | 591 |
| 11 | A biodegradable polymer-based coating to control the performance of magnesium alloy orthopaedic implants. Biomaterials, 2010, 31, 2084-2096. | 5.7 | 521 |
| 12 | Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. Nature Communications, 2019, 10, 1447. | 5.8 | 494 |
| 13 | 3D printing of hydrogels: Rational design strategies and emerging biomedical applications. Materials Science and Engineering Reports, 2020, 140, 100543. | 14.8 | 494 |
| 14 | Surface Coordination of Black Phosphorus for Robust Air and Water Stability. Angewandte Chemie - International Edition, 2016, 55, 5003-5007. | 7.2 | 479 |
| 15 | Metalâ€Ionâ€Modified Black Phosphorus with Enhanced Stability and Transistor Performance. Advanced Materials, 2017, 29, 1703811. | 11.1 | 431 |
| 16 | Cyclodextrin-Based Hostâ€“Guest Supramolecular Nanoparticles for Delivery: From Design to Applications. Accounts of Chemical Research, 2014, 47, 2017-2025. | 7.6 | 418 |
| 17 | The influence of hierarchical hybrid micro/nano-textured titanium surface with titania nanotubes on osteoblast functions. Biomaterials, 2010, 31, 5072-5082. | 5.7 | 401 |
| 18 | Influence of aggressive ions on the degradation behavior of biomedical magnesium alloy in physiological environment. Acta Biomaterialia, 2008, 4, 2008-2015. | 4.1 | 341 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. Biomaterials, 2014, 35, 7699-7713. | 5.7 | 340 |
| 20 | Plasma immersion ion implantationâ€"a fledgling technique for semiconductor processing. Materials Science and Engineering Reports, 1996, 17, 207-280. | 14.8 | 335 |
| 21 | Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. Biomaterials, 2014, 35, 4255-4265. | 5.7 | 319 |
| 22 | Mechanism of apatite formation on wollastonite coatings in simulated body fluids. Biomaterials, 2004, 25, 1755-1761. | 5.7 | 315 |
| 23 | Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. Progress in Materials Science, 2006, 51, 983-1031. | 16.0 | 312 |
| 24 | Surface design of biodegradable magnesium alloys â€" A review. Surface and Coatings Technology, 2013, 233, 2-12. | 2.2 | 309 |
| 25 | Biological actions of silver nanoparticles embedded in titanium controlled by micro-galvanic effects. Biomaterials, 2011, 32, 693-705. | 5.7 | 307 |
| 26 | Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. Acta Biomaterialia, 2016, 45, 2-30. | 4.1 | 306 |
| 27 | The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. Biomaterials, 2014, 35, 4223-4235. | 5.7 | 305 |
| 28 | Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. Sustainable Energy and Fuels, 2019, 3, 366-381. | 2.5 | 305 |
| 29 | Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. Biomaterials, 2013, 34, 9264-9277. | 5.7 | 302 |
| 30 | Blackâ€Phosphorusâ€Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. Advanced Science, 2018, 5, 1700848. | 5.6 | 289 |
| 31 | Experimental Evidence for the Quantum Confinement Effect in 3C-SiC Nanocrystallites. Physical Review Letters, 2005, 94, 026102. | 2.9 | 288 |
| 32 | New Ultraviolet Photodetector Based on Individual Nb<sub>2</sub>O<sub>5</sub> Nanobelts. Advanced Functional Materials, 2011, 21, 3907-3915. | 7.8 | 285 |
| 33 | A General and Facile Approach to Heterostructured Core/Shell BiVO<sub>4</sub>/BiOI pâ€"n Junction: Room-Temperature in Situ Assembly and Highly Boosted Visible-Light Photocatalysis. ACS Sustainable Chemistry and Engineering, 2015, 3, 3262-3273. | 3.2 | 285 |
| 34 | Rose-bengal-conjugated gold nanorods for inÂvivo photodynamic and photothermal oral cancer therapies. Biomaterials, 2014, 35, 1954-1966. | 5.7 | 276 |
| 35 | Effects of micropitted/nanotubular titania topographies on bone mesenchymal stem cell osteogenic differentiation. Biomaterials, 2012, 33, 2629-2641. | 5.7 | 273 |
| 36 | Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. Biomaterials, 2013, 34, 3467-3478. | 5.7 | 269 |

| # | Article | IF | Citations |
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| 37 | Group IV Nanoparticles: Synthesis, Properties, and Biological Applications. Small, 2010, 6, 2080-2098. | 5.2 | 264 |
| 38 | TiL<sub>4</sub>â€Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. Small, 2017, 13, 1602896. | 5.2 | 251 |
| 39 | Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. Nano Energy, 2020, 78, 105234. | 8.2 | 250 |
| 40 | Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. Biomaterials, 2016, 74, 144-154. | 5.7 | 247 |
| 41 | Rapid Sterilization and Accelerated Wound Healing Using Zn<sup>2+</sup> and Graphene Oxide Modified gâ€C<sub>3</sub>N<sub>4</sub> under Dual Light Irradiation. Advanced Functional Materials, 2018, 28, 1800299. | 7.8 | 246 |
| 42 | Hollow chitosanâ€“silica nanospheres as pH-sensitive targeted delivery carriers in breast cancer therapy. Biomaterials, 2011, 32, 4976-4986. | 5.7 | 245 |
| 43 | Surface nano-functionalization of biomaterials. Materials Science and Engineering Reports, 2010, 70, 275-302. | 14.8 | 244 |
| 44 | A CRISPRâ€“Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. Nature Communications, 2018, 9, 5012. | 5.8 | 244 |
| 45 | Stimulation of bone growth following zinc incorporation into biomaterials. Biomaterials, 2014, 35, 6882-6897. | 5.7 | 241 |
| 46 | Photothermal Contribution to Enhanced Photocatalytic Performance of Graphene-Based Nanocomposites. ACS Nano, 2014, 8, 9304-9310. | 7.3 | 240 |
| 47 | Raman scattering study of zinc blende and wurtzite ZnS. Journal of Applied Physics, 2009, 106, . | 1.1 | 235 |
| 48 | Surface energy, wettability, and blood compatibility phosphorus doped diamond-like carbon films. Diamond and Related Materials, 2005, 14, 78-85. | 1.8 | 230 |
| 49 | Balancing Bacteriaâ€“Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. ACS Nano, 2017, 11, 11250-11263. | 7.3 | 230 |
| 50 | Synthesis and low-temperature photoluminescence properties of SnO2nanowires and nanobelts. Nanotechnology, 2006, 17, 1695-1699. | 1.3 | 228 |
| 51 | Tuning the Bandgap of Photo-Sensitive Polydopamine/Ag<sub>3</sub>PO<sub>4</sub>/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. ACS Central Science, 2018, 4, 724-738. | 5.3 | 227 |
| 52 | Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. ACS Applied Materials & Interfaces, 2017, 9, 26417-26428. | 4.0 | 223 |
| 53 | Mid-infrared surface plasmon resonance sensor based on photonic crystal fibers. Optics Express, 2017, 25, 14227. | 1.7 | 222 |
| 54 | Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. Biomaterials, 2017, 124, 25-34. | 5.7 | 219 |

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| 55 | Engineering Nanoparticle-Coated Bacteria as Oral DNA Vaccines for Cancer Immunotherapy. Nano Letters, 2015, 15, 2732-2739. | 4.5 | 213 |
| 56 | Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. Optics Express, 2018, 26, 9039. | 1.7 | 213 |
| 57 | The osteogenic activity of strontium loaded titania nanotube arrays on titanium substrates. Biomaterials, 2013, 34, 19-29. | 5.7 | 212 |
| 58 | Inâ€Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. Angewandte Chemie - International Edition, 2018, 57, 2600-2604. | 7.2 | 209 |
| 59 | Functionalized TiO<sub>2</sub> Based Nanomaterials for Biomedical Applications. Advanced Functional Materials, 2014, 24, 5464-5481. | 7.8 | 208 |
| 60 | Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. Biomaterials, 2015, 51, 173-183. | 5.7 | 206 |
| 61 | InÂvitro and inÂvivo anti-biofilm effects of silver nanoparticles immobilized on titanium. Biomaterials, 2014, 35, 9114-9125. | 5.7 | 205 |
| 62 | Metabolizable Ultrathin Bi<sub>2</sub>Se<sub>3</sub> Nanosheets in Imagingâ€Guided Photothermal Therapy. Small, 2016, 12, 4136-4145. | 5.2 | 203 |
| 63 | Bioactive SrTiO<sub>3</sub> Nanotube Arrays: Strontium Delivery Platform on Ti-Based Osteoporotic Bone Implants. ACS Nano, 2009, 3, 3228-3234. | 7.3 | 198 |
| 64 | Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. Acta Biomaterialia, 2014, 10, 544-556. | 4.1 | 194 |
| 65 | Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. Biomaterials, 2016, 78, 27-39. | 5.7 | 192 |
| 66 | Corrosion behavior of biomedical AZ91 magnesium alloy in simulated body fluids. Journal of Materials Research, 2007, 22, 2004-2011. | 1.2 | 189 |
| 67 | Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. Biomaterials, 2016, 83, 115-126. | 5.7 | 189 |
| 68 | Zincâ€Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. Advanced Science, 2018, 5, 1800749. | 5.6 | 184 |
| 69 | Direct Growth of Graphene Film on Germanium Substrate. Scientific Reports, 2013, 3, 2465. | 1.6 | 181 |
| 70 | Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. Journal of Materials Chemistry A, 2019, 7, 14-37. | 5.2 | 181 |
| 71 | Near-infrared light control of bone regeneration with biodegradable photothermal osteoimplant. Biomaterials, 2019, 193, 1-11. | 5.7 | 181 |
| 72 | Quantum confinement effects across two-dimensional planes in MoS2 quantum dots. Applied Physics Letters, 2015, 106, . | 1.5 | 180 |

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|---|---|---|---|
| 73 | Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. Acta Biomaterialia, 2018, 77, 352-364. | 4.1 | 180 |
| 74 | VO<sub>2</sub>/TiN Plasmonic Thermochromic Smart Coatings for Roomâ€Temperature Applications. Advanced Materials, 2018, 30, 1705421. | 11.1 | 179 |
| 75 | Few-Layer Antimonene: Anisotropic Expansion and Reversible Crystalline-Phase Evolution Enable Large-Capacity and Long-Life Na-Ion Batteries. ACS Nano, 2018, 12, 1887-1893. | 7.3 | 175 |
| 76 | Electrochemical surface engineering of titanium-based alloys for biomedical application. Electrochimica Acta, 2018, 271, 699-718. | 2.6 | 168 |
| 77 | Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. Biomaterials Science, 2018, 6, 2110-2121. | 2.6 | 168 |
| 78 | 3Câ€“SiC Nanocrystals as Fluorescent Biological Labels. Small, 2008, 4, 1058-1062. | 5.2 | 165 |
| 79 | Electrochemical corrosion behavior of biodegradable Mgâ€“Yâ€“RE and Mgâ€“Znâ€“Zr alloys in Ringerâ€™s solution and simulated body fluid. Corrosion Science, 2015, 91, 160-184. | 3.0 | 162 |
| 80 | Improvement of corrosion resistance and biocompatibility of rare-earth WE43 magnesium alloy by neodymium self-ion implantation. Corrosion Science, 2015, 94, 142-155. | 3.0 | 161 |
| 81 | Influence of heat treatment on degradation behavior of bio-degradable die-cast AZ63 magnesium alloy in simulated body fluid. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 350-357. | 2.6 | 160 |
| 82 | Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. Advanced Optical Materials, 2013, 1, 926-932. | 3.6 | 160 |
| 83 | Evaporative Selfâ€Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. Advanced Materials, 2016, 28, 2511-2517. | 11.1 | 160 |
| 84 | Freestanding carbon encapsulated mesoporous vanadium nitride nanowires enable highly stable sulfur cathodes for lithium-sulfur batteries. Nano Energy, 2017, 40, 655-662. | 8.2 | 159 |
| 85 | Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. Chemistry of Materials, 2017, 29, 7131-7139. | 3.2 | 158 |
| 86 | Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. Optics Communications, 2020, 464, 125496. | 1.0 | 157 |
| 87 | Elucidating the Intercalation Pseudocapacitance Mechanism of MoS<sub>2</sub>â€“Carbon Monolayer Interoverlapped Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. ACS Applied Materials & Interfaces, 2017, 9, 32745-32755. | 4.0 | 156 |
| 88 | An antibacterial platform based on capacitive carbon-doped TiO2 nanotubes after direct or alternating currentÂcharging. Nature Communications, 2018, 9, 2055. | 5.8 | 153 |
| 89 | Sn-C bonding riveted SnSe nanoplates vertically grown on nitrogen-doped carbon nanobelts for high-performance sodium-ion battery anodes. Nano Energy, 2018, 54, 322-330. | 8.2 | 152 |
| 90 | Designing Coreâ€“Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. ACS Nano, 2017, 11, 4848-4858. | 7.3 | 150 |

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|---|---|---|---|
| 91 | Biomass-derived robust three-dimensional porous carbon for high volumetric performance supercapacitors. Journal of Power Sources, 2019, 412, 1-9. | 4.0 | 150 |
| 92 | Hydrogenated V<sub>2</sub>O<sub>5</sub> Nanosheets for Superior Lithium Storage Properties. Advanced Functional Materials, 2016, 26, 784-791. | 7.8 | 149 |
| 93 | Light-emitting diodes enhanced by localized surface plasmon resonance. Nanoscale Research Letters, 2011, 6, 199. | 3.1 | 147 |
| 94 | Graphitic carbon nitride-based materials for photocatalytic antibacterial application. Materials Science and Engineering Reports, 2021, 145, 100610. | 14.8 | 145 |
| 95 | Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. Scientific Reports, 2016, 6, 27374. | 1.6 | 144 |
| 96 | Mechanical and biological characteristics of diamond-like carbon coated poly aryl-ether-ether-ketone. Biomaterials, 2010, 31, 8181-8187. | 5.7 | 143 |
| 97 | Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. Biomaterials, 2018, 174, 1-16. | 5.7 | 140 |
| 98 | Inactivation of a 25.5ÂÂµm Enterococcus faecalis biofilm by a room-temperature, battery-operated, handheld air plasma jet. Journal Physics D: Applied Physics, 2012, 45, 165205. | 1.3 | 138 |
| 99 | Engineering and functionalization of biomaterials via surface modification. Journal of Materials Chemistry B, 2015, 3, 2024-2042. | 2.9 | 138 |
| 100 | Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. Advanced Materials Interfaces, 2016, 3, 1500494. | 1.9 | 138 |
| 101 | Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. Plasmonics, 2018, 13, 779-784. | 1.8 | 137 |
| 102 | Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. Biomaterials, 2012, 33, 3013-3024. | 5.7 | 136 |
| 103 | Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. Nano Energy, 2018, 52, 360-368. | 8.2 | 135 |
| 104 | Degradation behaviour of pure magnesium in simulated body fluids with different concentrations of. Corrosion Science, 2011, 53, 1522-1528. | 3.0 | 133 |
| 105 | Green light stimulates terahertz emission from mesocrystal microspheres. Nature Nanotechnology, 2011, 6, 103-106. | 15.6 | 131 |
| 106 | Plasma surface modification of poly vinyl chloride for improvement of antibacterial properties. Biomaterials, 2006, 27, 44-51. | 5.7 | 130 |
| 107 | Degradation susceptibility of surgical magnesium alloy in artificial biological fluid containing albumin. Journal of Materials Research, 2007, 22, 1806-1814. | 1.2 | 130 |
| 108 | Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. Materials Science and Engineering Reports, 2017, 120, 1-33. | 14.8 | 130 |

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|---|---|---|---|
| 109 | Origin of low-temperature photoluminescence from SnO2 nanowires fabricated by thermal evaporation and annealed in different ambients. Applied Physics Letters, 2006, 88, 183112. | 1.5 | 128 |
| 110 | Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. Advanced Optical Materials, 2013, 1, 554-558. | 3.6 | 128 |
| 111 | MoS<sub>2</sub>â€Quantumâ€Dotâ€Interspersed Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> Nanosheets with Enhanced Performance for Liâ€•and Naâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 3349-3358. | 7.8 | 128 |
| 112 | Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. ACS Applied Materials & Interfaces, 2018, 10, 1266-1277. | 4.0 | 127 |
| 113 | Synthesis, Growth Mechanism, and Electrochemical Properties of Hollow Mesoporous Carbon Spheres with Controlled Diameter. Journal of Physical Chemistry C, 2011, 115, 17717-17724. | 1.5 | 125 |
| 114 | Radiation tolerance of Cu/W multilayered nanocomposites. Journal of Nuclear Materials, 2011, 413, 11-15. | 1.3 | 125 |
| 115 | A Biomimetic Hierarchical Scaffold: Natural Growth of Nanotitanates on Three-Dimensional Microporous Ti-Based Metals. Nano Letters, 2008, 8, 3803-3808. | 4.5 | 124 |
| 116 | Fabrication, modification, and biomedical applications of anodized TiO<sub>2</sub> nanotube arrays. RSC Advances, 2014, 4, 17300-17324. | 1.7 | 124 |
| 117 | Au Nanoparticles Decorated TiO<sub>2</sub> Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. Environmental Science & Technology, 2016, 50, 4430-4438. | 4.6 | 124 |
| 118 | Mo2C/VC heterojunction embedded in graphitic carbon network: An advanced electrocatalyst for hydrogen evolution. Nano Energy, 2019, 60, 520-526. | 8.2 | 124 |
| 119 | A bifunctional hydrogel incorporated with CuS@MoS2 microspheres for disinfection and improved wound healing. Chemical Engineering Journal, 2020, 382, 122849. | 6.6 | 124 |
| 120 | Highly Conductive, Mechanically Robust, and Electrochemically Inactive TiC/C Nanofiber Scaffold for High-Performance Silicon Anode Batteries. ACS Nano, 2011, 5, 8346-8351. | 7.3 | 122 |
| 121 | A surface-engineered polyetheretherketone biomaterial implant with direct and immunoregulatory antibacterial activity against methicillin-resistant Staphylococcus aureus. Biomaterials, 2019, 208, 8-20. | 5.7 | 122 |
| 122 | Synergistic WO<sub>3</sub>Â·2H<sub>2</sub>O Nanoplates/WS<sub>2</sub> Hybrid Catalysts for High-Efficiency Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 13966-13972. | 4.0 | 120 |
| 123 | Surface functionalization of biomaterials by radical polymerization. Progress in Materials Science, 2016, 83, 191-235. | 16.0 | 120 |
| 124 | Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. Nano Energy, 2016, 26, 603-609. | 8.2 | 120 |
| 125 | Effects and Mechanism of Atmospheric-Pressure Dielectric Barrier Discharge Cold Plasmaon Lactate Dehydrogenase (LDH) Enzyme. Scientific Reports, 2015, 5, 10031. | 1.6 | 119 |
| 126 | In situ segregation of cobalt nanoparticles on VN nanosheets via nitriding of Co 2 V 2 O 7 nanosheets as efficient oxygen evolution reaction electrocatalysts. Nano Energy, 2017, 34, 1-7. | 8.2 | 119 |

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| 127 | Electron storage mediated dark antibacterial action of bound silver nanoparticles: Smaller is not always better. Acta Biomaterialia, 2013, 9, 5100-5110. | 4.1 | 116 |
| 128 | Black Phosphorus Based Photocathodes in Wideband Bifacial Dyeâ€Sensitized Solar Cells. Advanced Materials, 2016, 28, 8937-8944. | 11.1 | 116 |
| 129 | Surface Coordination of Black Phosphorus for Robust Air and Water Stability. Angewandte Chemie, 2016, 128, 5087-5091. | 1.6 | 116 |
| 130 | Near-infrared light-triggered drug delivery system based on black phosphorus for inÂvivo bone regeneration. Biomaterials, 2018, 179, 164-174. | 5.7 | 115 |
| 131 | Ni-doped amorphous iron phosphide nanoparticles on TiN nanowire arrays: An advanced alkaline hydrogen evolution electrocatalyst. Nano Energy, 2018, 53, 66-73. | 8.2 | 115 |
| 132 | 2D black phosphorus dotted with silver nanoparticles: An excellent lubricant additive for tribological applications. Chemical Engineering Journal, 2020, 392, 123631. | 6.6 | 115 |
| 133 | Synergistic treatment of ovarian cancer by co-delivery of survivin shRNA and paclitaxel via supramolecular micellar assembly. Biomaterials, 2012, 33, 6580-6591. | 5.7 | 114 |
| 134 | Valence State Manipulation of Cerium Oxide Nanoparticles on a Titanium Surface for Modulating Cell Fate and Bone Formation. Advanced Science, 2018, 5, 1700678. | 5.6 | 114 |
| 135 | Highly Stretchable Conductive Glue for Highâ€Performance Silicon Anodes in Advanced Lithiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1704858. | 7.8 | 113 |
| 136 | Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. Angewandte Chemie - International Edition, 2019, 58, 769-774. | 7.2 | 113 |
| 137 | Corrosion behavior of ZrN/Zr coated biomedical AZ91 magnesium alloy. Surface and Coatings Technology, 2009, 203, 2554-2557. | 2.2 | 112 |
| 138 | The role of sterilization in the cytocompatibility of titania nanotubes. Biomaterials, 2010, 31, 2055-2063. | 5.7 | 112 |
| 139 | Low-modulus Mg/PCL hybrid bone substitute for osteoporotic fracture fixation. Biomaterials, 2013, 34, 7016-7032. | 5.7 | 112 |
| 140 | In situ formation of N-doped carbon-coated porous MoP nanowires: a highly efficient electrocatalyst for hydrogen evolution reaction in a wide pH range. Applied Catalysis B: Environmental, 2020, 263, 118358. | 10.8 | 112 |
| 141 | Corrosion behavior of AZ91 magnesium alloy treated by plasma immersion ion implantation and deposition in artificial physiological fluids. Thin Solid Films, 2007, 516, 422-427. | 0.8 | 111 |
| 142 | Synergistic antibacterial activity of physical-chemical multi-mechanism by TiO2 nanorod arrays for safe biofilm eradication on implant. Bioactive Materials, 2021, 6, 12-25. | 8.6 | 111 |
| 143 | Plasma-treated nanostructured TiO2 surface supporting biomimetic growth of apatite. Biomaterials, 2005, 26, 6143-6150. | 5.7 | 110 |
| 144 | Influence of Test Solutions on In Vitro Studies of Biomedical Magnesium Alloys. Journal of the Electrochemical Society, 2010, 157, C238. | 1.3 | 110 |

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|---|---|---|---|
| 145 | Fabrication and enhanced dielectric properties of grapheneâ€“polyvinylidene fluoride functional hybrid films with a polyaniline interlayer. Journal of Materials Chemistry A, 2013, 1, 884-890. | 5.2 | 110 |
| 146 | Synthesis and Photocatalytic Activity of Highly Ordered TiO<sub>2</sub> and SrTiO<sub>3</sub>/TiO<sub>2</sub> Nanotube Arrays on Ti Substrates. Journal of the American Ceramic Society, 2010, 93, 2771-2778. | 1.9 | 108 |
| 147 | Mesoporous nitrogen-doped carbon hollow spheres as high-performance anodes for lithium-ion batteries. Journal of Power Sources, 2016, 324, 233-238. | 4.0 | 108 |
| 148 | Freestanding hollow double-shell Se@CNx nanobelts as large-capacity and high-rate cathodes for Li-Se batteries. Nano Energy, 2017, 32, 1-9. | 8.2 | 108 |
| 149 | High-Efficiency Electrochemical Hydrogen Evolution Based on Surface Autocatalytic Effect of Ultrathin 3C-SiC Nanocrystals. Nano Letters, 2012, 12, 1545-1548. | 4.5 | 107 |
| 150 | Recent developments and applications of plasma immersion ion implantation. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 289. | 1.6 | 106 |
| 151 | Bioactivity and cytocompatibility of zirconia (ZrO2) films fabricated by cathodic arc deposition. Biomaterials, 2006, 27, 3904-3911. | 5.7 | 106 |
| 152 | Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. Corrosion Science, 2014, 82, 7-26. | 3.0 | 106 |
| 153 | Corrosion resistance and cytocompatibility of tantalum-surface-functionalized biomedical ZK60 Mg alloy. Corrosion Science, 2017, 114, 45-56. | 3.0 | 106 |
| 154 | Electrostatic Self-Assembly of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene and Gold Nanorods as an Efficient Surface-Enhanced Raman Scattering Platform for Reliable and High-Sensitivity Determination of Organic Pollutants. ACS Sensors, 2019, 4, 2303-2310. | 4.0 | 106 |
| 155 | Conductive amorphous carbon-coated 316L stainless steel as bipolar plates in polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2009, 34, 6771-6777. | 3.8 | 105 |
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