Paul Chu

List of Publications by Citations

1,857 papers	68,154 citations	111 h-index	192 g-index
1,909 ext. papers	78,044 ext. citations	6 avg, IF	8.3 L-index

#	Paper	IF	Citations
1857	Surface modification of titanium, titanium alloys, and related materials for biomedical applications. *Materials Science and Engineering Reports*, **2004**, 47, 49-121	30.9	2397
1856	Plasma-surface modification of biomaterials. *Materials Science and Engineering Reports*, **2002**, 36, 143-206	30.9	1134
1855	Characterization of amorphous and nanocrystalline carbon films. *Materials Chemistry and Physics*, **2006**, 96, 253-277	4.4	840
1854	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. *Angewandte Chemie - International Edition*, **2015**, 54, 11526-30	16.4	745
1853	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. *Advanced Functional Materials*, **2015**, 25, 6996-7002	15.6	725
1852	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. *Nature Communications*, **2016**, 7, 12967	17.4	659
1851	Antibacterial coatings on titanium implants. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 470-80	3.5	632
1850	Fabrication of multiple heterojunctions with tunable visible-light-active photocatalytic reactivity in BiOBr-BiOI full-range composites based on microstructure modulation and band structures. *ACS Applied Materials & Interfaces*, **2015**, 7, 482-92	9.5	606
1849	Antibacterial nano-structured titania coating incorporated with silver nanoparticles. *Biomaterials*, **2011**, 32, 5706-16	15.6	598
1848	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO32−Doped Bi2O2CO3. *ACS Catalysis*, **2015**, 5, 4094-4103	13.1	596
1847	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. *Advanced Materials*, **2008**, 20, 4085-4090	24	537
1846	In vitro studies of biomedical magnesium alloys in a simulated physiological environment: a review. *Acta Biomaterialia*, **2011**, 7, 1452-9	10.8	490
1845	Flexible and ion-conducting membrane electrolytes for solid-state lithium batteries: Dispersion of garnet nanoparticles in insulating polyethylene oxide. *Nano Energy*, **2016**, 28, 447-454	17.1	449
1844	A biodegradable polymer-based coating to control the performance of magnesium alloy orthopaedic implants. *Biomaterials*, **2010**, 31, 2084-96	15.6	443
1843	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. *ACS Nano*, **2017**, 11, 9010-9021	16.7	416
1842	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. *Angewandte Chemie - International Edition*, **2016**, 55, 5003-7	16.4	406
1841	The influence of hierarchical hybrid micro/nano-textured titanium surface with titania nanotubes on osteoblast functions. *Biomaterials*, **2010**, 31, 5072-82	15.6	367

1840	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. *Advanced Materials*, **2017**, 29, 1703811	24	353
1839	Cyclodextrin-based host-guest supramolecular nanoparticles for delivery: from design to applications. *Accounts of Chemical Research*, **2014**, 47, 2017-25	24.3	331
1838	Facile fabrication of superhydrophobic surface with excellent mechanical abrasion and corrosion resistance on copper substrate by a novel method. *ACS Applied Materials & Interfaces*, **2014**, 6, 8762-70	9.5	319
1837	Plasma immersion ion implantation□ fledgling technique for semiconductor processing. *Materials Science and Engineering Reports*, **1996**, 17, 207-280	30.9	306
1836	Synthesis, dispersion, and cytocompatibility of graphene oxide and reduced graphene oxide. *Colloids and Surfaces B: Biointerfaces*, **2012**, 89, 79-85	6	298
1835	Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. *Nature Communications*, **2019**, 10, 1447	17.4	293
1834	Mechanism of apatite formation on wollastonite coatings in simulated body fluids. *Biomaterials*, **2004**, 25, 1755-61	15.6	280
1833	Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. *Biomaterials*, **2014**, 35, 7699-713	15.6	276
1832	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. *Progress in Materials Science*, **2006**, 51, 983-1031	42.2	275
1831	Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. *Biomaterials*, **2014**, 35, 4255-65	15.6	273
1830	Influence of aggressive ions on the degradation behavior of biomedical magnesium alloy in physiological environment. *Acta Biomaterialia*, **2008**, 4, 2008-15	10.8	273
1829	The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. *Biomaterials*, **2014**, 35, 4223-35	15.6	271
1828	Biological actions of silver nanoparticles embedded in titanium controlled by micro-galvanic effects. *Biomaterials*, **2011**, 32, 693-705	15.6	271
1827	Experimental evidence for the quantum confinement effect in 3C-SiC nanocrystallites. *Physical Review Letters*, **2005**, 94, 026102	7.4	264
1826	New Ultraviolet Photodetector Based on Individual Nb2O5 Nanobelts. *Advanced Functional Materials*, **2011**, 21, 3907-3915	15.6	257
1825	A General and Facile Approach to Heterostructured Core/Shell BiVO4/BiOI p□ Junction: Room-Temperature in Situ Assembly and Highly Boosted Visible-Light Photocatalysis. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 3262-3273	8.3	251
1824	Effects of micropitted/nanotubular titania topographies on bone mesenchymal stem cell osteogenic differentiation. *Biomaterials*, **2012**, 33, 2629-41	15.6	245
1823	Surface design of biodegradable magnesium alloys □A review. *Surface and Coatings Technology*, **2013**, 233, 2-12	4.4	245

1822	Group IV nanoparticles: synthesis, properties, and biological applications. *Small*, **2010**, 6, 2080-98	11	242
1821	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. *Materials Science and Engineering Reports*, **2020**, 140, 100543	30.9	241
1820	Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. *Biomaterials*, **2013**, 34, 3467-78	15.6	233
1819	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. *Biomaterials*, **2013**, 34, 9264-77	15.6	229
1818	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. *Biomaterials*, **2014**, 35, 1954-66	15.6	226
1817	Hollow chitosan-silica nanospheres as pH-sensitive targeted delivery carriers in breast cancer therapy. *Biomaterials*, **2011**, 32, 4976-86	15.6	225
1816	Surface nano-functionalization of biomaterials. *Materials Science and Engineering Reports*, **2010**, 70, 275-302	30.9	213
1815	Surface energy, wettability, and blood compatibility phosphorus doped diamond-like carbon films. *Diamond and Related Materials*, **2005**, 14, 78-85	3.5	212
1814	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. *Biomaterials*, **2016**, 74, 144-54	15.6	209
1813	Raman scattering study of zinc blende and wurtzite ZnS. *Journal of Applied Physics*, **2009**, 106, 123505	2.5	205
1812	Synthesis and low-temperature photoluminescence properties of SnO2 nanowires and nanobelts. *Nanotechnology*, **2006**, 17, 1695-9	3.4	205
1811	Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. *Acta Biomaterialia*, **2016**, 45, 2-30	10.8	203
1810	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. *Angewandte Chemie*, **2015**, 127, 11688-11692	3.6	201
1809	Black-Phosphorus-Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. *Advanced Science*, **2018**, 5, 1700848	13.6	199
1808	TiL -Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. *Small*, **2017**, 13, 1602896	11	198
1807	High-performance two-ply yarn supercapacitors based on carbon nanotube yarns dotted with Co3 O4 and NiO nanoparticles. *Small*, **2015**, 11, 854-61	11	194
1806	The osteogenic activity of strontium loaded titania nanotube arrays on titanium substrates. *Biomaterials*, **2013**, 34, 19-29	15.6	194
1805	Stimulation of bone growth following zinc incorporation into biomaterials. *Biomaterials*, **2014**, 35, 6882-97	15.6	191

1804	Bioactive SrTiO(3) nanotube arrays: strontium delivery platform on Ti-based osteoporotic bone implants. *ACS Nano*, **2009**, 3, 3228-34	16.7	184
1803	Photothermal contribution to enhanced photocatalytic performance of graphene-based nanocomposites. *ACS Nano*, **2014**, 8, 9304-10	16.7	181
1802	Enhanced Ion Conductivity in Conducting Polymer Binder for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702314	21.8	180
1801	Balancing Bacteria-Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. *ACS Nano*, **2017**, 11, 11250-11263	16.7	178
1800	In□vitro and in□vivo anti-biofilm effects of silver nanoparticles immobilized on titanium. *Biomaterials*, **2014**, 35, 9114-25	15.6	173
1799	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. *ACS Applied Materials & Interfaces*, **2017**, 9, 26417-26428	9.5	173
1798	Rapid Sterilization and Accelerated Wound Healing Using Zn2+ and Graphene Oxide Modified g-C3N4 under Dual Light Irradiation. *Advanced Functional Materials*, **2018**, 28, 1800299	15.6	173
1797	Intrinsic dipole-field-driven mesoscale crystallization of core-shell ZnO mesocrystal microspheres. *Journal of the American Chemical Society*, **2009**, 131, 9405-12	16.4	171
1796	Tuning the Bandgap of Photo-Sensitive Polydopamine/AgPO/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. *ACS Central Science*, **2018**, 4, 724-738	16.8	168
1795	Functionalized TiO2 Based Nanomaterials for Biomedical Applications. *Advanced Functional Materials*, **2014**, 24, 5464-5481	15.6	168
1794	Metabolizable Ultrathin Bi2 Se3 Nanosheets in Imaging-Guided Photothermal Therapy. *Small*, **2016**, 12, 4136-45	11	168
1793	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. *Biomaterials*, **2016**, 78, 27-39	15.6	167
1792	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 2600-2604	16.4	159
1791	Corrosion behavior of biomedical AZ91 magnesium alloy in simulated body fluids. *Journal of Materials Research*, **2007**, 22, 2004-2011	2.5	159
1790	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. *Acta Biomaterialia*, **2014**, 10, 544-56	10.8	157
1789	Direct growth of graphene film on germanium substrate. *Scientific Reports*, **2013**, 3, 2465	4.9	157
1788	Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. *Sustainable Energy and Fuels*, **2019**, 3, 366-381	5.8	154
1787	3C-SiC nanocrystals as fluorescent biological labels. *Small*, **2008**, 4, 1058-62	11	154

1786	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. *Biomaterials*, **2017**, 124, 25-34	15.6	152
1785	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. *Biomaterials*, **2015**, 51, 173-183	15.6	152
1784	A CRISPR-Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. *Nature Communications*, **2018**, 9, 5012	17.4	148
1783	Simultaneous nanostructure and heterojunction engineering of graphitic carbon nitride via in situ Ag doping for enhanced photoelectrochemical activity. *Applied Catalysis B: Environmental*, **2015**, 163, 611-622	21.8	146
1782	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. *Optics Express*, **2018**, 26, 9039-9049	3.3	146
1781	Antithrombogenic investigation of surface energy and optical bandgap and hemocompatibility mechanism of Ti(Ta(+5))O2 thin films. *Biomaterials*, **2002**, 23, 2545-52	15.6	146
1780	Engineering nanoparticle-coated bacteria as oral DNA vaccines for cancer immunotherapy. *Nano Letters*, **2015**, 15, 2732-9	11.5	144
1779	Activation of platelets adhered on amorphous hydrogenated carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition (PIII-D). *Biomaterials*, **2003**, 24, 2821-9	15.6	137
1778	Quantum confinement effects across two-dimensional planes in MoS2 quantum dots. *Applied Physics Letters*, **2015**, 106, 233113	3.4	136
1777	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	16.7	135
1776	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. *Advanced Materials*, **2016**, 28, 2511-7	24	134
1775	In vitro corrosion degradation behaviour of Mg□a alloy in the presence of albumin. *Corrosion Science*, **2010**, 52, 3341-3347	6.8	134
1774	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. *Advanced Optical Materials*, **2013**, 1, 926-932	8.1	133
1773	VO /TiN Plasmonic Thermochromic Smart Coatings for Room-Temperature Applications. *Advanced Materials*, **2018**, 30, 1705421	24	131
1772	Principles and characteristics of a new generation plasma immersion ion implanter. *Review of Scientific Instruments*, **1997**, 68, 1866-1874	1.7	131
1771	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	5.3	131
1770	Electrochemical corrosion behavior of biodegradable Mg□RE and Mg□n□r alloys in Ringer□ solution and simulated body fluid. *Corrosion Science*, **2015**, 91, 160-184	6.8	129
1769	Light-emitting diodes enhanced by localized surface plasmon resonance. *Nanoscale Research Letters*, **2011**, 6, 199	5	129

1768	Freestanding carbon encapsulated mesoporous vanadium nitride nanowires enable highly stable sulfur cathodes for lithium-sulfur batteries. *Nano Energy*, **2017**, 40, 655-662	17.1	128
1767	Identification of oxygen vacancy types from Raman spectra of SnO2 nanocrystals. *Journal of Raman Spectroscopy*, **2012**, 43, 1423-1426	2.3	128
1766	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. *Biomaterials*, **2016**, 83, 115-26	15.6	127
1765	Electrochemical surface engineering of titanium-based alloys for biomedical application. *Electrochimica Acta*, **2018**, 271, 699-718	6.7	126
1764	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. *Chemistry of Materials*, **2017**, 29, 7131-7139	9.6	125
1763	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. *ACS Nano*, **2017**, 11, 4848-4858	16.7	124
1762	Origin of low-temperature photoluminescence from SnO2 nanowires fabricated by thermal evaporation and annealed in different ambients. *Applied Physics Letters*, **2006**, 88, 183112	3.4	120
1761	Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. *Biomaterials*, **2012**, 33, 3013-24	15.6	118
1760	Inactivation of a 25.5 μmEnterococcus faecalisbiofilm by a room-temperature, battery-operated, handheld air plasma jet. *Journal Physics D: Applied Physics*, **2012**, 45, 165205	3	118
1759	Mechanical and thermal properties of basalt fiber reinforced poly(butylene succinate) composites. *Materials Chemistry and Physics*, **2012**, 133, 845-849	4.4	117
1758	Mechanical and biological characteristics of diamond-like carbon coated poly aryl-ether-ether-ketone. *Biomaterials*, **2010**, 31, 8181-7	15.6	116
1757	Plasma surface modification of poly vinyl chloride for improvement of antibacterial properties. *Biomaterials*, **2006**, 27, 44-51	15.6	116
1756	Carbon plasma immersion ion implantation of nickel-titanium shape memory alloys. *Biomaterials*, **2005**, 26, 2265-72	15.6	116
1755	MoS2-Quantum-Dot-Interspersed Li4Ti5O12 Nanosheets with Enhanced Performance for Li- and Na-Ion Batteries. *Advanced Functional Materials*, **2016**, 26, 3349-3358	15.6	115
1754	In situ crystallization for fabrication of a core-satellite structured BiOBr-CdS heterostructure with excellent visible-light-responsive photoreactivity. *Nanoscale*, **2015**, 7, 11702-11	7.7	115
1753	Degradation susceptibility of surgical magnesium alloy in artificial biological fluid containing albumin. *Journal of Materials Research*, **2007**, 22, 1806-1814	2.5	114
1752	Blood compatibility and sp3/sp2 contents of diamond-like carbon (DLC) synthesized by plasma immersion ion implantation-deposition. *Surface and Coatings Technology*, **2002**, 156, 289-294	4.4	114
1751	Improvement of corrosion resistance and biocompatibility of rare-earth WE43 magnesium alloy by neodymium self-ion implantation. *Corrosion Science*, **2015**, 94, 142-155	6.8	112

1750	Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. *Advanced Optical Materials*, **2013**, 1, 554-558	8.1	112
1749	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. *Acta Biomaterialia*, **2018**, 77, 352-364	10.8	111
1748	Engineering and functionalization of biomaterials via surface modification. *Journal of Materials Chemistry B*, **2015**, 3, 2024-2042	7.3	111
1747	Degradation behaviour of pure magnesium in simulated body fluids with different concentrations of. *Corrosion Science*, **2011**, 53, 1522-1528	6.8	111
1746	Microstructure of Ti/Al ohmic contacts for n-AlGaN. *Applied Physics Letters*, **1998**, 73, 2582-2584	3.4	111
1745	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. *Advanced Materials Interfaces*, **2016**, 3, 1500494	4.6	111
1744	Hydrogenated V2O5 Nanosheets for Superior Lithium Storage Properties. *Advanced Functional Materials*, **2016**, 26, 784-791	15.6	110
1743	Green light stimulates terahertz emission from mesocrystal microspheres. *Nature Nanotechnology*, **2011**, 6, 103-6	28.7	110
1742	A biomimetic hierarchical scaffold: natural growth of nanotitanates on three-dimensional microporous Ti-based metals. *Nano Letters*, **2008**, 8, 3803-8	11.5	110
1741	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	7.4	110
1740	Fabrication, modification, and biomedical applications of anodized TiO2 nanotube arrays. *RSC Advances*, **2014**, 4, 17300-17324	3.7	109
1739	Synthesis, Growth Mechanism, and Electrochemical Properties of Hollow Mesoporous Carbon Spheres with Controlled Diameter. *Journal of Physical Chemistry C*, **2011**, 115, 17717-17724	3.8	109
1738	Highly conductive, mechanically robust, and electrochemically inactive TiC/C nanofiber scaffold for high-performance silicon anode batteries. *ACS Nano*, **2011**, 5, 8346-51	16.7	109
1737	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. *Journal of Materials Chemistry A*, **2019**, 7, 14-37	13	109
1736	Interaction of electromagnetic waves with a magnetized nonuniform plasma slab. *IEEE Transactions on Plasma Science*, **2003**, 31, 405-410	1.3	106
1735	Synergistic treatment of ovarian cancer by co-delivery of survivin shRNA and paclitaxel via supramolecular micellar assembly. *Biomaterials*, **2012**, 33, 6580-91	15.6	104
1734	The effects of amorphous carbon films deposited on polyethylene terephthalate on bacterial adhesion. *Biomaterials*, **2004**, 25, 3163-70	15.6	104
1733	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. *Scientific Reports*, **2016**, 6, 27374	4.9	103

1732	Synthesis and Photocatalytic Activity of Highly Ordered TiO2 and SrTiO3/TiO2 Nanotube Arrays on Ti Substrates. *Journal of the American Ceramic Society*, **2010**, 93, 2771-2778	3.8	103
1731	The role of sterilization in the cytocompatibility of titania nanotubes. *Biomaterials*, **2010**, 31, 2055-63	15.6	103
1730	Zinc-Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. *Advanced Science*, **2018**, 5, 1800749	13.6	102
1729	Electron storage mediated dark antibacterial action of bound silver nanoparticles: smaller is not always better. *Acta Biomaterialia*, **2013**, 9, 5100-10	10.8	102
1728	Fabrication and enhanced dielectric properties of graphene□polyvinylidene fluoride functional hybrid films with a polyaniline interlayer. *Journal of Materials Chemistry A*, **2013**, 1, 884-890	13	102
1727	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. *Materials Science and Engineering Reports*, **2017**, 120, 1-33	30.9	102
1726	Plasma-treated nanostructured TiO(2) surface supporting biomimetic growth of apatite. *Biomaterials*, **2005**, 26, 6143-50	15.6	102
1725	Radiation tolerance of Cu/W multilayered nanocomposites. *Journal of Nuclear Materials*, **2011**, 413, 11-15	3.3	101
1724	Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. *Plasmonics*, **2018**, 13, 779-784	2.4	100
1723	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. *Advanced Materials*, **2016**, 28, 8937-8944	24	100
1722	Biomass-derived robust three-dimensional porous carbon for high volumetric performance supercapacitors. *Journal of Power Sources*, **2019**, 412, 1-9	8.9	100
1721	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	17.1	100
1720	High-efficiency electrochemical hydrogen evolution based on surface autocatalytic effect of ultrathin 3C-SiC nanocrystals. *Nano Letters*, **2012**, 12, 1545-8	11.5	99
1719	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	2.2	99
1718	Surface functionalization of biomaterials by radical polymerization. *Progress in Materials Science*, **2016**, 83, 191-235	42.2	99
1717	An antibacterial platform based on capacitive carbon-doped TiO nanotubes after direct or alternating current□charging. *Nature Communications*, **2018**, 9, 2055	17.4	99
1716	Identification of surface structures on 3C-SiC nanocrystals with hydrogen and hydroxyl bonding by photoluminescence. *Nano Letters*, **2009**, 9, 4053-60	11.5	98
1715	Au Nanoparticles Decorated TiO2 Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. *Environmental Science & Technology*, **2016**, 50, 4430-8	10.3	97

1714	Near-infrared light control of bone regeneration with biodegradable photothermal osteoimplant. *Biomaterials*, **2019**, 193, 1-11	15.6	97
1713	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		96
1712	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. *ACS Applied Materials & Interfaces*, **2018**, 10, 1266-1277	9.5	96
1711	Nanostructured TiO2 for energy conversion and storage. *RSC Advances*, **2013**, 3, 24758	3.7	95
1710	Charged diphenylalanine nanotubes and controlled hierarchical self-assembly. *ACS Nano*, **2011**, 5, 4448-54	16.7	94
1709	Bamboo leaf derived ultrafine Si nanoparticles and Si/C nanocomposites for high-performance Li-ion battery anodes. *Nanoscale*, **2015**, 7, 13840-7	7.7	93
1708	Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. *Nano Energy*, **2016**, 26, 603-609	17.1	92
1707	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. *Angewandte Chemie*, **2016**, 128, 5087-5091	3.6	92
1706	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	15.6	92
1705	Effects and Mechanism of Atmospheric-Pressure Dielectric Barrier Discharge Cold Plasma on Lactate Dehydrogenase (LDH) Enzyme. *Scientific Reports*, **2015**, 5, 10031	4.9	92
1704	Bioactivity and cytocompatibility of zirconia (ZrO(2)) films fabricated by cathodic arc deposition. *Biomaterials*, **2006**, 27, 3904-11	15.6	92
1703	Hemocompatibility and anti-bacterial properties of silver doped diamond-like carbon prepared by pulsed filtered cathodic vacuum arc deposition. *Diamond and Related Materials*, **2007**, 16, 1353-1360	3.5	91
1702	Highly-crystalline ultrathin Li4Ti5O12 nanosheets decorated with silver nanocrystals as a high-performance anode material for lithium ion batteries. *Journal of Power Sources*, **2015**, 276, 247-254	8.9	90
1701	The role of integrin-linked kinase/β-catenin pathway in the enhanced MG63 differentiation by micro/nano-textured topography. *Biomaterials*, **2013**, 34, 631-40	15.6	90
1700	Corrosion behavior of ZrN/Zr coated biomedical AZ91 magnesium alloy. *Surface and Coatings Technology*, **2009**, 203, 2554-2557	4.4	90
1699	Biocompatibility and bioactivity of plasma-treated biodegradable poly(butylene succinate). *Acta Biomaterialia*, **2009**, 5, 279-87	10.8	90
1698	Highly Stretchable Conductive Glue for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1704858	15.6	90
1697	Third-generation plasma immersion ion implanter for biomedical materials and research. *Review of Scientific Instruments*, **2001**, 72, 1660	1.7	89

1696	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. *Nano Energy*, **2018**, 52, 360-368	17.1	88
1695	Low-modulus Mg/PCL hybrid bone substitute for osteoporotic fracture fixation. *Biomaterials*, **2013**, 34, 7016-32	15.6	88
1694	Tin oxide nanoribbons with vacancy structures in luminescence-sensitive oxygen sensing. *Nano Letters*, **2009**, 9, 1926-31	11.5	88
1693	Improvement of surface bioactivity on titanium by water and hydrogen plasma immersion ion implantation. *Biomaterials*, **2005**, 26, 6129-35	15.6	88
1692	Synergistic WO3□2H2O Nanoplates/WS2 Hybrid Catalysts for High-Efficiency Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2016**, 8, 13966-72	9.5	88
1691	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	6.7	87
1690	Ultra-sensitive detection of cysteine by gold nanorod assembly. *Biosensors and Bioelectronics*, **2010**, 25, 2078-83	11.8	87
1689	Mesoporous nitrogen-doped carbon hollow spheres as high-performance anodes for lithium-ion batteries. *Journal of Power Sources*, **2016**, 324, 233-238	8.9	87
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