

Paul K Chu

List of Publications by Citations

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1,445
papers

54,942
citations

104
h-index

172
g-index

1,470
ext. papers

63,401
ext. citations

6.5
avg, IF

8.11
L-index

#	Paper	IF	Citations
1445	Characterization of amorphous and nanocrystalline carbon films. <i>Materials Chemistry and Physics</i> , 2006 , 96, 253-277	4.4	840
1444	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11526-30	16.4	745
1443	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2015 , 25, 6996-7002	15.6	725
1442	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , 2016 , 7, 12967	17.4	659
1441	Antibacterial coatings on titanium implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 91, 470-80	3.5	632
1440	Fabrication of multiple heterojunctions with tunable visible-light-active photocatalytic reactivity in BiOBr-BiOI full-range composites based on microstructure modulation and band structures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 482-92	9.5	606
1439	Antibacterial nano-structured titania coating incorporated with silver nanoparticles. <i>Biomaterials</i> , 2011 , 32, 5706-16	15.6	598
1438	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO ₂ -Doped Bi ₂ O ₂ CO ₃ . <i>ACS Catalysis</i> , 2015 , 5, 4094-4103	13.1	596
1437	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. <i>Advanced Materials</i> , 2008 , 20, 4085-4090	24	537
1436	A biodegradable polymer-based coating to control the performance of magnesium alloy orthopaedic implants. <i>Biomaterials</i> , 2010 , 31, 2084-96	15.6	443
1435	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. <i>ACS Nano</i> , 2017 , 11, 9010-9021	16.7	416
1434	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5003-7	16.4	406
1433	The influence of hierarchical hybrid micro/nano-textured titanium surface with titania nanotubes on osteoblast functions. <i>Biomaterials</i> , 2010 , 31, 5072-82	15.6	367
1432	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017 , 29, 1703811	24	353
1431	Cyclodextrin-based host-guest supramolecular nanoparticles for delivery: from design to applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 2017-25	24.3	331
1430	Plasma immersion ion implantation—fledgling technique for semiconductor processing. <i>Materials Science and Engineering Reports</i> , 1996 , 17, 207-280	30.9	306
1429	Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , 2019 , 10, 1447	17.4	293

1428	Mechanism of apatite formation on wollastonite coatings in simulated body fluids. <i>Biomaterials</i> , 2004 , 25, 1755-61	15.6	280
1427	Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. <i>Biomaterials</i> , 2014 , 35, 7699-713	15.6	276
1426	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. <i>Progress in Materials Science</i> , 2006 , 51, 983-1031	42.2	275
1425	Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. <i>Biomaterials</i> , 2014 , 35, 4255-65	15.6	273
1424	Influence of aggressive ions on the degradation behavior of biomedical magnesium alloy in physiological environment. <i>Acta Biomaterialia</i> , 2008 , 4, 2008-15	10.8	273
1423	The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. <i>Biomaterials</i> , 2014 , 35, 4223-35	15.6	271
1422	Biological actions of silver nanoparticles embedded in titanium controlled by micro-galvanic effects. <i>Biomaterials</i> , 2011 , 32, 693-705	15.6	271
1421	Experimental evidence for the quantum confinement effect in 3C-SiC nanocrystallites. <i>Physical Review Letters</i> , 2005 , 94, 026102	7.4	264
1420	New Ultraviolet Photodetector Based on Individual Nb ₂ O ₅ Nanobelts. <i>Advanced Functional Materials</i> , 2011 , 21, 3907-3915	15.6	257
1419	A General and Facile Approach to Heterostructured Core/Shell BiVO ₄ /BiOI p-n Junction: Room-Temperature in Situ Assembly and Highly Boosted Visible-Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3262-3273	8.3	251
1418	Effects of micropitted/nanotubular titania topographies on bone mesenchymal stem cell osteogenic differentiation. <i>Biomaterials</i> , 2012 , 33, 2629-41	15.6	245
1417	Surface design of biodegradable magnesium alloys [A review]. <i>Surface and Coatings Technology</i> , 2013 , 233, 2-12	4.4	245
1416	Group IV nanoparticles: synthesis, properties, and biological applications. <i>Small</i> , 2010 , 6, 2080-98	11	242
1415	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <i>Materials Science and Engineering Reports</i> , 2020 , 140, 100543	30.9	241
1414	Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. <i>Biomaterials</i> , 2013 , 34, 3467-78	15.6	233
1413	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. <i>Biomaterials</i> , 2013 , 34, 9264-77	15.6	229
1412	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , 2014 , 35, 1954-66	15.6	226
1411	Hollow chitosan-silica nanospheres as pH-sensitive targeted delivery carriers in breast cancer therapy. <i>Biomaterials</i> , 2011 , 32, 4976-86	15.6	225

1410	Surface nano-functionalization of biomaterials. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 275-302	3.0	213
1409	Surface energy, wettability, and blood compatibility phosphorus doped diamond-like carbon films. <i>Diamond and Related Materials</i> , 2005 , 14, 78-85	3.5	212
1408	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , 2016 , 74, 144-54	15.6	209
1407	Raman scattering study of zinc blende and wurtzite ZnS. <i>Journal of Applied Physics</i> , 2009 , 106, 123505	2.5	205
1406	Synthesis and low-temperature photoluminescence properties of SnO ₂ nanowires and nanobelts. <i>Nanotechnology</i> , 2006 , 17, 1695-9	3.4	205
1405	Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. <i>Acta Biomaterialia</i> , 2016 , 45, 2-30	10.8	203
1404	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie</i> , 2015 , 127, 11688-11692	3.6	201
1403	Black-Phosphorus-Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. <i>Advanced Science</i> , 2018 , 5, 1700848	13.6	199
1402	TiL-Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. <i>Small</i> , 2017 , 13, 1602896	11	198
1401	The osteogenic activity of strontium loaded titania nanotube arrays on titanium substrates. <i>Biomaterials</i> , 2013 , 34, 19-29	15.6	194
1400	Stimulation of bone growth following zinc incorporation into biomaterials. <i>Biomaterials</i> , 2014 , 35, 6882-93	15.6	191
1399	Bioactive SrTiO ₃ nanotube arrays: strontium delivery platform on Ti-based osteoporotic bone implants. <i>ACS Nano</i> , 2009 , 3, 3228-34	16.7	184
1398	Photothermal contribution to enhanced photocatalytic performance of graphene-based nanocomposites. <i>ACS Nano</i> , 2014 , 8, 9304-10	16.7	181
1397	Balancing Bacteria-Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , 2017 , 11, 11250-11263	16.7	178
1396	In vitro and in vivo anti-biofilm effects of silver nanoparticles immobilized on titanium. <i>Biomaterials</i> , 2014 , 35, 9114-25	15.6	173
1395	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26417-26428	9.5	173
1394	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified g-C ₃ N ₄ under Dual Light Irradiation. <i>Advanced Functional Materials</i> , 2018 , 28, 1800299	15.6	173
1393	Tuning the Bandgap of Photo-Sensitive Polydopamine/AgPO/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , 2018 , 4, 724-738	16.8	168

1392	Functionalized TiO ₂ Based Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014 , 24, 5464-5481	15.6	168
1391	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016 , 12, 4136-45	11	168
1390	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016 , 78, 27-39	15.6	167
1389	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2600-2604	16.4	159
1388	Corrosion behavior of biomedical AZ91 magnesium alloy in simulated body fluids. <i>Journal of Materials Research</i> , 2007 , 22, 2004-2011	2.5	159
1387	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , 2014 , 10, 544-56	10.8	157
1386	Direct growth of graphene film on germanium substrate. <i>Scientific Reports</i> , 2013 , 3, 2465	4.9	157
1385	Mid-infrared surface plasmon resonance sensor based on photonic crystal fibers. <i>Optics Express</i> , 2017 , 25, 14227-14237	3.3	156
1384	Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 366-381	5.8	154
1383	3C-SiC nanocrystals as fluorescent biological labels. <i>Small</i> , 2008 , 4, 1058-62	11	154
1382	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , 2017 , 124, 25-34	15.6	152
1381	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. <i>Biomaterials</i> , 2015 , 51, 173-183	15.6	152
1380	A CRISPR-Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. <i>Nature Communications</i> , 2018 , 9, 5012	17.4	148
1379	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. <i>Optics Express</i> , 2018 , 26, 9039-9049	3.3	146
1378	Engineering nanoparticle-coated bacteria as oral DNA vaccines for cancer immunotherapy. <i>Nano Letters</i> , 2015 , 15, 2732-9	11.5	144
1377	Quantum confinement effects across two-dimensional planes in MoS ₂ quantum dots. <i>Applied Physics Letters</i> , 2015 , 106, 233113	3.4	136
1376	Few-Layer Antimonene: Anisotropic Expansion and Reversible Crystalline-Phase Evolution Enable Large-Capacity and Long-Life Na-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 1887-1893	16.7	135
1375	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , 2016 , 28, 2511-7	24	134

1374	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. <i>Advanced Optical Materials</i> , 2013 , 1, 926-932	8.1	133
1373	VO /TiN Plasmonic ThermoChromic Smart Coatings for Room-Temperature Applications. <i>Advanced Materials</i> , 2018 , 30, 1705421	24	131
1372	Influence of heat treatment on degradation behavior of bio-degradable die-cast AZ63 magnesium alloy in simulated body fluid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 350-357	5.3	131
1371	Electrochemical corrosion behavior of biodegradable Mg ₉₂ RE and Mg ₉₂ Zn ₈ alloys in Ringer's solution and simulated body fluid. <i>Corrosion Science</i> , 2015 , 91, 160-184	6.8	129
1370	Light-emitting diodes enhanced by localized surface plasmon resonance. <i>Nanoscale Research Letters</i> , 2011 , 6, 199	5	129
1369	Freestanding carbon encapsulated mesoporous vanadium nitride nanowires enable highly stable sulfur cathodes for lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 40, 655-662	17.1	128
1368	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. <i>Biomaterials</i> , 2016 , 83, 115-26	15.6	127
1367	Electrochemical surface engineering of titanium-based alloys for biomedical application. <i>Electrochimica Acta</i> , 2018 , 271, 699-718	6.7	126
1366	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2017 , 29, 7131-7139	9.6	125
1365	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , 2017 , 11, 4848-4858	16.7	124
1364	Origin of low-temperature photoluminescence from SnO ₂ nanowires fabricated by thermal evaporation and annealed in different ambients. <i>Applied Physics Letters</i> , 2006 , 88, 183112	3.4	120
1363	Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. <i>Biomaterials</i> , 2012 , 33, 3013-24	15.6	118
1362	Elucidating the Intercalation Pseudocapacitance Mechanism of MoS ₂ -Carbon Monolayer Interoverlapped Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32745-32755	9.5	118
1361	Inactivation of a 25.5 μ m <i>Enterococcus faecalis</i> biofilm by a room-temperature, battery-operated, handheld air plasma jet. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 165205	3	118
1360	Mechanical and biological characteristics of diamond-like carbon coated poly aryl-ether-ether-ketone. <i>Biomaterials</i> , 2010 , 31, 8181-7	15.6	116
1359	Plasma surface modification of poly vinyl chloride for improvement of antibacterial properties. <i>Biomaterials</i> , 2006 , 27, 44-51	15.6	116
1358	MoS ₂ -Quantum-Dot-Interspersed Li ₄ Ti ₅ O ₁₂ Nanosheets with Enhanced Performance for Li- and Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 3349-3358	15.6	115
1357	Degradation susceptibility of surgical magnesium alloy in artificial biological fluid containing albumin. <i>Journal of Materials Research</i> , 2007 , 22, 1806-1814	2.5	114

1356	Improvement of corrosion resistance and biocompatibility of rare-earth WE43 magnesium alloy by neodymium self-ion implantation. <i>Corrosion Science</i> , 2015 , 94, 142-155	6.8	112
1355	Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. <i>Advanced Optical Materials</i> , 2013 , 1, 554-558	8.1	112
1354	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. <i>Acta Biomaterialia</i> , 2018 , 77, 352-364	10.8	111
1353	Engineering and functionalization of biomaterials via surface modification. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2024-2042	7.3	111
1352	Degradation behaviour of pure magnesium in simulated body fluids with different concentrations of. <i>Corrosion Science</i> , 2011 , 53, 1522-1528	6.8	111
1351	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500494	4.6	111
1350	Hydrogenated V2O5 Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2016 , 26, 784-791	15.6	110
1349	Green light stimulates terahertz emission from mesocrystal microspheres. <i>Nature Nanotechnology</i> , 2011 , 6, 103-6	28.7	110
1348	A biomimetic hierarchical scaffold: natural growth of nanotitanates on three-dimensional microporous Ti-based metals. <i>Nano Letters</i> , 2008 , 8, 3803-8	11.5	110
1347	Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. <i>Biomaterials Science</i> , 2018 , 6, 2110-2121	7.4	110
1346	Fabrication, modification, and biomedical applications of anodized TiO2 nanotube arrays. <i>RSC Advances</i> , 2014 , 4, 17300-17324	3.7	109
1345	Synthesis, Growth Mechanism, and Electrochemical Properties of Hollow Mesoporous Carbon Spheres with Controlled Diameter. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17717-17724	3.8	109
1344	Highly conductive, mechanically robust, and electrochemically inactive TiC/C nanofiber scaffold for high-performance silicon anode batteries. <i>ACS Nano</i> , 2011 , 5, 8346-51	16.7	109
1343	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14-37	13	109
1342	Synergistic treatment of ovarian cancer by co-delivery of survivin shRNA and paclitaxel via supramolecular micellar assembly. <i>Biomaterials</i> , 2012 , 33, 6580-91	15.6	104
1341	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. <i>Scientific Reports</i> , 2016 , 6, 27374	4.9	103
1340	Synthesis and Photocatalytic Activity of Highly Ordered TiO2 and SrTiO3/TiO2 Nanotube Arrays on Ti Substrates. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2771-2778	3.8	103
1339	The role of sterilization in the cytocompatibility of titania nanotubes. <i>Biomaterials</i> , 2010 , 31, 2055-63	15.6	103

1338	Zinc-Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. <i>Advanced Science</i> , 2018 , 5, 1800749	13.6	102
1337	Electron storage mediated dark antibacterial action of bound silver nanoparticles: smaller is not always better. <i>Acta Biomaterialia</i> , 2013 , 9, 5100-10	10.8	102
1336	Fabrication and enhanced dielectric properties of graphene/polyvinylidene fluoride functional hybrid films with a polyaniline interlayer. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 884-890	13	102
1335	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , 2017 , 120, 1-33	30.9	102
1334	Plasma-treated nanostructured TiO ₂ surface supporting biomimetic growth of apatite. <i>Biomaterials</i> , 2005 , 26, 6143-50	15.6	102
1333	Radiation tolerance of Cu/W multilayered nanocomposites. <i>Journal of Nuclear Materials</i> , 2011 , 413, 11-15	3.3	101
1332	Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. <i>Plasmonics</i> , 2018 , 13, 779-784	2.4	100
1331	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8937-8944	24	100
1330	Biomass-derived robust three-dimensional porous carbon for high volumetric performance supercapacitors. <i>Journal of Power Sources</i> , 2019 , 412, 1-9	8.9	100
1329	Sn-C bonding riveted SnSe nanoplates vertically grown on nitrogen-doped carbon nanobelts for high-performance sodium-ion battery anodes. <i>Nano Energy</i> , 2018 , 54, 322-330	17.1	100
1328	High-efficiency electrochemical hydrogen evolution based on surface autocatalytic effect of ultrathin 3C-SiC nanocrystals. <i>Nano Letters</i> , 2012 , 12, 1545-8	11.5	99
1327	Corrosion behavior of AZ91 magnesium alloy treated by plasma immersion ion implantation and deposition in artificial physiological fluids. <i>Thin Solid Films</i> , 2007 , 516, 422-427	2.2	99
1326	Surface functionalization of biomaterials by radical polymerization. <i>Progress in Materials Science</i> , 2016 , 83, 191-235	42.2	99
1325	An antibacterial platform based on capacitive carbon-doped TiO ₂ nanotubes after direct or alternating current charging. <i>Nature Communications</i> , 2018 , 9, 2055	17.4	99
1324	Identification of surface structures on 3C-SiC nanocrystals with hydrogen and hydroxyl bonding by photoluminescence. <i>Nano Letters</i> , 2009 , 9, 4053-60	11.5	98
1323	Au Nanoparticles Decorated TiO ₂ Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. <i>Environmental Science & Technology</i> , 2016 , 50, 4430-8	10.3	97
1322	Near-infrared light control of bone regeneration with biodegradable photothermal osteoimplant. <i>Biomaterials</i> , 2019 , 193, 1-11	15.6	97
1321	Recent developments and applications of plasma immersion ion implantation. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 289		96

1320	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1266-1277	9.5	96
1319	Charged diphenylalanine nanotubes and controlled hierarchical self-assembly. <i>ACS Nano</i> , 2011 , 5, 4448-4467	16.7	94
1318	Bamboo leaf derived ultrafine Si nanoparticles and Si/C nanocomposites for high-performance Li-ion battery anodes. <i>Nanoscale</i> , 2015 , 7, 13840-7	7.7	93
1317	Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2016 , 26, 603-609	17.1	92
1316	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , 2016 , 128, 5087-5091	3.6	92
1315	Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. <i>Biomaterials</i> , 2018 , 174, 1-16	15.6	92
1314	Effects and Mechanism of Atmospheric-Pressure Dielectric Barrier Discharge Cold Plasma on Lactate Dehydrogenase (LDH) Enzyme. <i>Scientific Reports</i> , 2015 , 5, 10031	4.9	92
1313	Bioactivity and cytocompatibility of zirconia (ZrO ₂) films fabricated by cathodic arc deposition. <i>Biomaterials</i> , 2006 , 27, 3904-11	15.6	92
1312	Hemocompatibility and anti-bacterial properties of silver doped diamond-like carbon prepared by pulsed filtered cathodic vacuum arc deposition. <i>Diamond and Related Materials</i> , 2007 , 16, 1353-1360	3.5	91
1311	Highly-crystalline ultrathin Li ₄ Ti ₅ O ₁₂ nanosheets decorated with silver nanocrystals as a high-performance anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 276, 247-254	8.9	90
1310	The role of integrin-linked kinase/ β -catenin pathway in the enhanced MG63 differentiation by micro/nano-textured topography. <i>Biomaterials</i> , 2013 , 34, 631-40	15.6	90
1309	Corrosion behavior of ZrN/Zr coated biomedical AZ91 magnesium alloy. <i>Surface and Coatings Technology</i> , 2009 , 203, 2554-2557	4.4	90
1308	Biocompatibility and bioactivity of plasma-treated biodegradable poly(butylene succinate). <i>Acta Biomaterialia</i> , 2009 , 5, 279-87	10.8	90
1307	Highly Stretchable Conductive Glue for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704858	15.6	90
1306	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2018 , 52, 360-368	17.1	88
1305	Low-modulus Mg/PCL hybrid bone substitute for osteoporotic fracture fixation. <i>Biomaterials</i> , 2013 , 34, 7016-32	15.6	88
1304	Tin oxide nanoribbons with vacancy structures in luminescence-sensitive oxygen sensing. <i>Nano Letters</i> , 2009 , 9, 1926-31	11.5	88
1303	Improvement of surface bioactivity on titanium by water and hydrogen plasma immersion ion implantation. <i>Biomaterials</i> , 2005 , 26, 6129-35	15.6	88

1302	Synergistic WO ₃ /H ₂ O Nanoplates/WS ₂ Hybrid Catalysts for High-Efficiency Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13966-72	9.5	88
1301	Conductive amorphous carbon-coated 316L stainless steel as bipolar plates in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6771-6777	6.7	87
1300	Ultra-sensitive detection of cysteine by gold nanorod assembly. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2078-83	11.8	87
1299	Mesoporous nitrogen-doped carbon hollow spheres as high-performance anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 324, 233-238	8.9	87
1298	Freestanding hollow double-shell Se@CN _x nanobelts as large-capacity and high-rate cathodes for Li-Se batteries. <i>Nano Energy</i> , 2017 , 32, 1-9	17.1	86
1297	Flexible Nb ₂ O ₅ nanowires/graphene film electrode for high-performance hybrid Li-ion supercapacitors. <i>Journal of Power Sources</i> , 2016 , 328, 599-606	8.9	86
1296	Relationship between osseointegration and superelastic biomechanics in porous NiTi scaffolds. <i>Biomaterials</i> , 2011 , 32, 330-8	15.6	86
1295	Fabrication and dielectric properties of oriented polyvinylidene fluoride nanocomposites incorporated with graphene nanosheets. <i>Materials Chemistry and Physics</i> , 2012 , 134, 867-874	4.4	85
1294	Nitrogen-Doped Carbon Encapsulated Mesoporous Vanadium Nitride Nanowires as Self-Supported Electrodes for Flexible All-Solid-State Supercapacitors. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500211	4.6	84
1293	In vivo stimulation of bone formation by aluminum and oxygen plasma surface-modified magnesium implants. <i>Biomaterials</i> , 2013 , 34, 9863-76	15.6	83
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1287	Antimicrobial properties of copper plasma-modified polyethylene. <i>Polymer</i> , 2006 , 47, 7441-7445	3.9	82
1286	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. <i>Nano Energy</i> , 2017 , 34, 1-7	17.1	81
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1284	Microstructure, bioactivity and osteoblast behavior of monoclinic zirconia coating with nanostructured surface. <i>Acta Biomaterialia</i> , 2010 , 6, 990-1000	10.8	81
1283	Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. <i>Nano Energy</i> , 2020 , 78, 105234	17.1	81
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1279	Controlled assembly of highly Raman-enhancing silver nanocap arrays templated by porous anodic alumina membranes. <i>Small</i> , 2009 , 5, 2333-7	11	80
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1275	Effects of Ti/TiN multilayer on corrosion resistance of nickel-titanium orthodontic brackets in artificial saliva. <i>Corrosion Science</i> , 2007 , 49, 3783-3796	6.8	79
1274	Mesoporous TiO ₂ Nanocrystals/Graphene as an Efficient Sulfur Host Material for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23784-92	9.5	78
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1216	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. <i>Biomaterials</i> , 2013 , 34, 4274-83	15.6	64
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1206	Determination of surface oxygen vacancy position in SnO ₂ nanocrystals by Raman spectroscopy. <i>Solid State Communications</i> , 2011 , 151, 811-814	1.6	61
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1187	Enhancement of surface properties of biomaterials using plasma-based technologies. <i>Surface and Coatings Technology</i> , 2007 , 201, 8076-8082	4.4	56
1186	Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9662-73	9.5	56
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1174	Optical identification of oxygen vacancy types in SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2013 , 102, 031916	3.4	54
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1149	Synthesis and field emission properties of rutile TiO ₂ nanowires arrays grown directly on a Ti metal self-source substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3341-6	1.3	50
1148	Synergistic antibacterial activity of physical-chemical multi-mechanism by TiO nanorod arrays for safe biofilm eradication on implant. <i>Bioactive Materials</i> , 2021 , 6, 12-25	16.7	50
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1133	Mechanism of cell repellence on quasi-aligned nanowire arrays on Ti alloy. <i>Biomaterials</i> , 2010 , 31, 8341-9	15.6	48
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514	Investigation of plasma distribution in electron-focused electric field enhanced glow discharge plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2008, 104, 043303	2.5	10
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512	Effects of plasma treatment on bioactivity of TiO ₂ coatings. <i>Surface and Coatings Technology</i> , 2007, 201, 6878-6881	4.4	10
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505	Two-dimensional numerical simulation of non-uniform plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2004 , 186, 47-52	4.4	10
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503	Relaxed SiGe-on-insulator fabricated by dry oxidation of sandwiched Si/SiGe/Si structure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 124-125, 153-157	3.1	10
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499	Tuning Superhydrophobic Materials with Negative Surface Energy Domains. <i>Research</i> , 2019 , 2019, 1391804	3.0	10
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496	Optimization and cutting-edge design of fuel-cell hybrid electric vehicles. <i>International Journal of Energy Research</i> , 2021 , 45, 18392	4.5	10
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