

# Paul Chu

## List of Publications by Year in Descending Order

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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.

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	Size-dependent flame retardancy of black phosphorus nanosheets.. <i>Nanoscale</i> , <b>2022</b> , 14, 2599-2604	7.7	1
1856	Commercialization of Electric Vehicles in Hong Kong. <i>Energies</i> , <b>2022</b> , 15, 942	3.1	3
1855	Improved corrosion and wear resistance of micro-arc oxidation coatings on the 2024 aluminum alloy by incorporation of quasi-two-dimensional sericite microplates. <i>Applied Surface Science</i> , <b>2022</b> , 585, 152693	6.7	0
1854	A programmed surface on polyetheretherketone for sequentially dictating osteoimmunomodulation and bone regeneration to achieve ameliorative osseointegration under osteoporotic conditions.. <i>Bioactive Materials</i> , <b>2022</b> , 14, 364-376	16.7	3
1853	A zinc-doped coating prepared on the magnesium alloy by plasma electrolytic oxidation for corrosion protection. <i>Surface and Coatings Technology</i> , <b>2022</b> , 433, 128148	4.4	2
1852	Fan-shape Mn-doped CoO/C microspheres for high lithium-ion storage capacity. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 903, 163980	5.7	0
1851	Enhanced ion conductivity and electrode-electrolyte interphase stability of porous Si anodes enabled by silicon nitride nanocoating for high-performance Li-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2022</b> ,	12	3
1850	Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation.. <i>Materials Science and Engineering C</i> , <b>2022</b> , 112701	8.3	1
1849	Finite phosphorene derived partial reduction of metal organic framework nanofoams for enhanced lithium storage capability. <i>Journal of Power Sources</i> , <b>2022</b> , 525, 231025	8.9	
1848	Stable static zinc-iodine redox battery constructed with graphene quantum dots coated graphite felt. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230861	8.9	0
1847	Magnesium cationic cue enriched interfacial tissue microenvironment nurtures the osseointegration of gamma-irradiated allograft bone.. <i>Bioactive Materials</i> , <b>2022</b> , 10, 32-47	16.7	1
1846	Hydrogen permeation behavior and mechanism of multi-layered graphene coatings and mitigation of hydrogen embrittlement of pipe steel. <i>Applied Surface Science</i> , <b>2022</b> , 573, 151529	6.7	1
1845	A multifunctional antibacterial coating on bone implants for osteosarcoma therapy and enhanced osteointegration. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131155	14.7	5
1844	Highly active cobalt-doped nickel sulfide porous nanocones for high-performance quasi-solid-state zinc-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 66, 237-249	12	3
1843	Hydrogels as Soft Ionic Conductors in Flexible and Wearable Triboelectric Nanogenerators.. <i>Advanced Science</i> , <b>2022</b> , e2106008	13.6	12
1842	Surface and interface control of black phosphorus. <i>CheM</i> , <b>2022</b> , 8, 632-662	16.2	2
1841	Diamond-like carbon coating and surface grafting of osteoprotegerin and alendronate on polyetheretherketone to ameliorate the mechanical performance and osseointegration simultaneously. <i>Composites Part B: Engineering</i> , <b>2022</b> , 236, 109815	10	0

1840	Sodium alginate coating on biodegradable high-purity magnesium with a hydroxide/silane transition layer for corrosion retardation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 642, 128647	5.1	0
1839	Effects of acid treatment and plasma micromachining on the surface properties of carbon fibers. <i>Applied Surface Science</i> , <b>2022</b> , 592, 153261	6.7	1
1838	Se-NiSe <sub>2</sub> hybrid nanosheet arrays with self-regulated elemental Se for efficient alkaline water splitting. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 118, 136-143	9.1	2
1837	Near-infrared photonic artificial synapses based on organic heterojunction phototransistors. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 151103	3.4	0
1836	Atomistic Observation of the Local Phase Transition in MoTe for Application in Homo Junction Photodetectors.. <i>Small</i> , <b>2022</b> , e2200913	11	3
1835	A silicate-loaded MgAl LDH self-healing coating on biomedical Mg alloys for corrosion retardation and cytocompatibility enhancement. <i>Surface and Coatings Technology</i> , <b>2022</b> , 439, 128442	4.4	0
1834	In-Plane Mott-Schottky Effects Enabling Efficient Hydrogen Evolution from Mo N -MoS Heterojunction Nanosheets in Universal-pH Electrolytes.. <i>Small</i> , <b>2022</b> , e2201137	11	1
1833	Graphene-assisted metal transfer printing for wafer-scale integration of metal electrodes and two-dimensional materials. <i>Nature Electronics</i> , <b>2022</b> , 5, 275-280	28.4	4
1832	In-Situ and Controllable Construction of Mo <sub>2</sub> N Embedded Mo <sub>2</sub> C Nanobelts as Robust Electrocatalyst for Superior pH-Universal Hydrogen Evolution Reaction. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165611	5.7	0
1831	Influence of photon reabsorption on the optical and catalytic properties of carbon nanodots/titanium oxide composites. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 213902	3.4	1
1830	Subnanometer MoP clusters confined in mesoporous carbon (CMK-3) as superior electrocatalytic sulfur hosts for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137050	14.7	1
1829	Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance. <i>Coatings</i> , <b>2022</b> , 12, 742	2.9	0
1828	In situ synthesis of 3D metal oxides/Ni <sub>3</sub> C on the macroporous electrically conductive network for enhanced electron field emission. <i>Materials Letters</i> , <b>2022</b> , 323, 132524	3.3	
1827	Plasmon-enhanced hydrogen evolution on Pt-anchored titanium nitride nanowire arrays. <i>Applied Surface Science</i> , <b>2022</b> , 598, 153745	6.7	1
1826	Efficient coupling of MnO/TiN on carbon cloth positive electrode and FeO/TiN on carbon cloth negative electrode for flexible ultra-fast hybrid supercapacitors.. <i>RSC Advances</i> , <b>2021</b> , 11, 35726-35736	3.7	1
1825	Plasma Engineering of Basal Sulfur Sites on MoS @Ni S Nanorods for the Alkaline Hydrogen Evolution Reaction.. <i>Advanced Science</i> , <b>2021</b> , e2104774	13.6	5
1824	Efficient photonic crystal fiber polarization splitters composed of gallium arsenide and nematic liquid crystals. <i>Modern Physics Letters B</i> , <b>2021</b> , 35, 2150077	1.6	0
1823	Porous Mo <sub>2</sub> C-Mo <sub>3</sub> N <sub>2</sub> heterostructure/rGO with synergistic functions as polysulfides regulator for high-performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133629	14.7	2

1822	Recent Progress and Perspective of Co-based Catalysts for Water Splitting: Design and Nanoarchitectonics. <i>Materials Today Energy</i> , <b>2021</b> , 100911	7	4
1821	Surface plasmon resonance chemical sensor composed of a microstructured optical fiber for the detection of an ultra-wide refractive index range and gas-liquid pollutants. <i>Optics Express</i> , <b>2021</b> , 29, 40734	3.4	9
1820	A lithium-doped surface inspires immunomodulatory functions for enhanced osteointegration through PI3K/AKT signaling axis regulation. <i>Biomaterials Science</i> , <b>2021</b> , 9, 8202-8220	7.4	5
1819	A water-soluble membrane for SARS-CoV-2 viral nucleic acid sampling and detection. <i>Nanoscale</i> , <b>2021</b> , 13, 18084-18088	7.7	
1818	MXene Coatings: Novel Hydrogen Permeation Barriers for Pipe Steels. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
1817	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50988-50995	9.5	1
1816	Recent Advances in Structural Engineering of 2D Hexagonal Boron Nitride Electrocatalysts. <i>Nano Energy</i> , <b>2021</b> , 91, 106661	17.1	6
1815	ZnL-BPs Integrated Bone Scaffold under Sequential Photothermal Mediation: A Win-Win Strategy Delivering Antibacterial Therapy and Fostering Osteogenesis Thereafter. <i>ACS Nano</i> , <b>2021</b> ,	16.7	20
1814	Short-brush NiFeOxHy films and the Pt derivative as high-performance electrode materials for efficient electrocatalytic water splitting. <i>Applied Surface Science</i> , <b>2021</b> , 151636	6.7	2
1813	Carbon-encapsulated nanosphere-assembled MoS2 nanosheets with large interlayer distance for flexible lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2021</b> , 25, 1657-1665	2.6	1
1812	Titania-zinc phosphate/nanocrystalline zinc composite coatings for corrosion protection of biomedical WE43 magnesium alloy. <i>Surface and Coatings Technology</i> , <b>2021</b> , 410, 126940	4.4	4
1811	Improved Load-Bearing Capacity and Tribological Properties of PTFE Coatings Induced by Surface Texturing and the Addition of GO. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	9
1810	Improving exposure of anodically ordered NiTiD and corrosion resistance and biological properties of NiTi alloys by substrate electropolishing. <i>Rare Metals</i> , <b>2021</b> , 40, 3575-3587	5.5	2
1809	Multi-functional gallium arsenide photonic crystal polarization splitter with a gold core. <i>Modern Physics Letters B</i> , <b>2021</b> , 35, 2150229	1.6	0
1808	Effects of hydrogen etching on MnO2 electrode materials for supercapacitors. <i>Surface and Coatings Technology</i> , <b>2021</b> , 410, 126951	4.4	2
1807	Effects of the tantalum intermediate layer on the nanomechanical properties and biocompatibility of nanostructured tantalum/tantalum nitride bilayer coating deposited by magnetron sputtering on the nickel titanium alloy. <i>Applied Nanoscience (Switzerland)</i> , <b>2021</b> , 11, 1867-1880	3.3	1
1806	A composite coating with physical interlocking and chemical bonding on WE43 magnesium alloy for corrosion protection and cytocompatibility enhancement. <i>Surface and Coatings Technology</i> , <b>2021</b> , 412, 127078	4.4	6
1805	Opportunities and challenges for aqueous metal-proton batteries. <i>Matter</i> , <b>2021</b> , 4, 1252-1273	12.7	10

1804	Cost-effective liquid-junction solar devices with plasma-implanted Ni/TiN/CNF hierarchically structured nanofibers. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 887, 115167	4.1	7
1803	Corrosion Behavior and Biocompatibility of Diamond-like Carbon-Coated Zinc: An In Vitro Study. <i>ACS Omega</i> , <b>2021</b> , 6, 9843-9851	3.9	9
1802	Substitution of quartz and clay with fly ash in the production of architectural ceramics: A mechanistic study. <i>Ceramics International</i> , <b>2021</b> , 47, 12514-12525	5.1	5
1801	Enhanced Hydrogen Evolution Activity of Phosphorus-Rich Tungsten Phosphide by Cobalt Doping: A Comprehensive Study of the Active Sites and Electronic Structure. <i>ChemElectroChem</i> , <b>2021</b> , 8, 1658-1664	4.3	2
1800	Investigation of a high-sensitivity surface plasmon resonance sensor based on the eccentric core quasi D-shape photonic quasi-crystal fiber. <i>Journal of Modern Optics</i> , <b>2021</b> , 68, 555-563	1.1	2
1799	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30797-30805	9.5	14
1798	Optical Anapole Modes in Gallium Phosphide Nanodisk with Forked Slits for Electric Field Enhancement. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
1797	Characteristics of continuous high power magnetron sputtering (C-HPMS) in reactive O <sub>2</sub> /Ar atmospheres. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 243301	2.5	0
1796	Strategies to improve cobalt-based electrocatalysts for electrochemical water splitting. <i>Journal of Catalysis</i> , <b>2021</b> , 398, 54-66	7.3	12
1795	Enhanced corrosion resistance and reduced cytotoxicity of the AZ91 Mg alloy by plasma nitriding and a hierarchical structure composed of ciprofloxacin-loaded polymeric multilayers and calcium phosphate coating. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> , 109, 2657-2672	5.4	1
1794	Macroscale Superlubricity on Engineering Steel in the Presence of Black Phosphorus. <i>Nano Letters</i> , <b>2021</b> , 21, 5308-5315	11.5	8
1793	Plasma-activated interfaces for biomedical engineering. <i>Bioactive Materials</i> , <b>2021</b> , 6, 2134-2143	16.7	5
1792	Evading strength-corrosion tradeoff in Mg alloys via dense ultrafine twins. <i>Nature Communications</i> , <b>2021</b> , 12, 4616	17.4	12
1791	Graphene-mediated ferromagnetic coupling in the nickel nano-islands/graphene hybrid. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	2
1790	NiS Nanocomposite Structures Doped with Zn and Co as Long-Lifetime, High-Energy-Density, and Binder-Free Cathodes in Flexible Aqueous Nickel-Zinc Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34292-34300	9.5	7
1789	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. <i>Materials Science and Engineering Reports</i> , <b>2021</b> , 145, 100610	30.9	55
1788	Optimization and cutting-edge design of fuel-cell hybrid electric vehicles. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 18392	4.5	10
1787	Utilization of coal fly ash in China: a mini-review on challenges and future directions. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 18727-18740	5.1	25

1786	Electrochemical stability, corrosion behavior, and biological properties of NiTiD nanoporous layers anodically on NiTi alloy. <i>Corrosion Science</i> , <b>2021</b> , 179, 109104	6.8	4
1785	Investigation of the microstructure on the nanoporous carbon based capacitive performance. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 310, 110629	5.3	2
1784	Synergistic antibacterial activity of physical-chemical multi-mechanism by TiO nanorod arrays for safe biofilm eradication on implant. <i>Bioactive Materials</i> , <b>2021</b> , 6, 12-25	16.7	50
1783	Enhanced corrosion resistance, antibacterial properties, and biocompatibility by hierarchical hydroxyapatite/ciprofloxacin-calcium phosphate coating on nitrided NiTi alloy. <i>Materials Science and Engineering C</i> , <b>2021</b> , 118, 111524	8.3	11
1782	Stepwise 3D-spatio-temporal magnesium cationic niche: Nanocomposite scaffold mediated microenvironment for modulating intramembranous ossification. <i>Bioactive Materials</i> , <b>2021</b> , 6, 503-519	16.7	10
1781	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. <i>Nanoscale</i> , <b>2021</b> , 13, 51-58	7.7	5
1780	Complete ablation of resistant tumors with photosensitive black phosphorus quantum dots-based lipid nanocapsules. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127879	14.7	1
1779	Large-scale and low-cost synthesis of in situ generated SiC/C nano-composites from rice husks for advanced electromagnetic wave absorption applications. <i>Surface and Coatings Technology</i> , <b>2021</b> , 406, 126641	4.4	5
1778	Effects of the target-to-substrate distance on the microstructure and properties of TiN coatings fabricated by pulse-enhanced vacuum arc evaporation. <i>Journal of Adhesion Science and Technology</i> , <b>2021</b> , 35, 1125-1137	2	1
1777	Uniform cobalt nanoparticles-decorated biscuit-like VN nanosheets by in situ segregation for Li-ion batteries and oxygen evolution reaction. <i>Applied Surface Science</i> , <b>2021</b> , 536, 147982	6.7	6
1776	Ultra-short and dual-core photonic crystal fiber polarization splitter composed of metal and gallium arsenide. <i>Optik</i> , <b>2021</b> , 226, 165779	2.5	13
1775	Functionalised h-BN as an effective lubricant additive in PAO oil for MoN coating sliding against Si3N4 ball. <i>Lubrication Science</i> , <b>2021</b> , 33, 33-42	1.3	4
1774	A Biomimetic Nano-Engineered Platform for Functional Tissue Engineering of Cartilage Superficial Zone. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001018	10.1	4
1773	Graphene-encapsulated blackberry-like porous silicon nanospheres prepared by modest magnesiothermic reduction for high-performance lithium-ion battery anode. <i>Rare Metals</i> , <b>2021</b> , 40, 383-392	5.5	35
1772	Black phosphorus: Versatile two-dimensional materials in cancer therapies. <i>View</i> , <b>2021</b> , 2, 20200043	7.8	4
1771	Artificial synapses with a sponge-like double-layer porous oxide memristor. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	9
1770	MXene-encapsulated hollow FeO nanochains embedded in N-doped carbon nanofibers with dual electronic pathways as flexible anodes for high-performance Li-ion batteries. <i>Nanoscale</i> , <b>2021</b> , 13, 4624-4633	7.7	20
1769	Overview of refractive index sensors comprising photonic crystal fibers based on the surface plasmon resonance effect [Invited]. <i>Chinese Optics Letters</i> , <b>2021</b> , 19, 102202	2.2	13



1768	Field emission from geometrically modulated tungsten-nickel sulfide / graphitic carbon nanobelts on Si microchannel plates. <i>Ceramics International</i> , <b>2021</b> , 47, 4034-4042	5.1	1
1767	High-performance multi-dimensional nitrogen-doped N+MnO <sub>2</sub> @TiC/C electrodes for supercapacitors. <i>Electrochimica Acta</i> , <b>2021</b> , 370, 137716	6.7	5
1766	Effects of different interlayers on the microstructure and properties of Mg/Cu dissimilar alloy welded joints. <i>Journal of Laser Applications</i> , <b>2021</b> , 33, 012055	2.1	1
1765	3D urchin-like NiCo <sub>2</sub> O <sub>4</sub> coated with carbon nanospheres prepared on flexible graphite felt for efficient bifunctional electrocatalytic water splitting. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 9961-9973	4.3	4
1764	Near-infrared light II - assisted rapid biofilm elimination platform for bone implants at mild temperature. <i>Biomaterials</i> , <b>2021</b> , 269, 120634	15.6	31
1763	Surface plasmon resonance sensor based on U-shaped photonic quasi-crystal fiber. <i>Applied Optics</i> , <b>2021</b> , 60, 1761-1766	1.7	11
1762	A cationic alternating copolymer composed of ornithine and glycine with an ordered sequence for enhanced bacterial activity. <i>Polymer Engineering and Science</i> , <b>2021</b> , 61, 1405-1414	2.3	1
1761	In situ construction of MoC/VN heterostructured electrocatalysts with strong electron coupling for highly efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129130	14.7	11
1760	Simultaneous application of diamond-like carbon coating and surface amination on polyether ether ketone: Towards superior mechanical performance and osseointegration. <i>Smart Materials in Medicine</i> , <b>2021</b> , 2, 219-219	12.9	11
1759	Natural Nanominerals Show Enzyme-Like Activities. <i>Journal of Nanomaterials</i> , <b>2021</b> , 2021, 1-12	3.2	0
1758	Additively manufactured high strength and ductility CrCoNi medium entropy alloy with hierarchical microstructure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 820, 141545	5.3	12
1757	Experimental and theoretical investigation of the control and balance of active sites on oxygen plasma-functionalized MoSe <sub>2</sub> nanosheets for efficient hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 288, 119983	21.8	14
1756	Programmed surface on poly(aryl-ether-ether-ketone) initiating immune mediation and fulfilling bone regeneration sequentially. <i>Innovation(China)</i> , <b>2021</b> , 2, 100148	17.8	6
1755	Engineering CsPbBr <sub>3</sub> quantum dots with efficient luminescence and stability by damage-free encapsulation with a-SiC <sub>x</sub> H. <i>Journal of Luminescence</i> , <b>2021</b> , 236, 118086	3.8	2
1754	Flexible Supercapacitors Based on CNT/MnO <sub>2</sub> -BP Composite Yarn Synthesized by In Situ Reduction. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 080524	3.9	2
1753	GaO@GaN Nanowire Arrays on Flexible Graphite Paper with Tunable Persistent Photoconductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 41916-41925	9.5	3
1752	TiO <sub>2</sub> film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127900	14.7	8
1751	Cationic Alternating Polypeptide Fixed on Polyurethane at Multiple Sites for Excellent Antibacterial and Antifouling Properties. <i>Langmuir</i> , <b>2021</b> , 37, 10657-10667	4	1

1750	Three-dimensional nano/micro-structured porous MoP/CNTs microspheres as high-capacity anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 872, 159608	5.7	2
1749	High efficient co-doping in plasma electrolytic oxidation to obtain long-term self-lubrication on Ti6Al4V. <i>Tribology International</i> , <b>2021</b> , 160, 107018	4.9	0
1748	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate bone regeneration. <i>Bioactive Materials</i> , <b>2021</b> , 6, 2315-2330	16.7	23
1747	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 293-299	12	4
1746	Fabrication of Bimetallic Oxides (MCo <sub>2</sub> O <sub>4</sub> : M=Cu, Mn) on Ordered Microchannel Electro-Conductive Plate for High-Performance Hybrid Supercapacitors. <i>Sustainability</i> , <b>2021</b> , 13, 9896	3.6	3
1745	Porous manganese dioxide nanosheets on modified graphite felt for cathodes in high-capacity flexible Zinc-MnO <sub>2</sub> batteries. <i>Vacuum</i> , <b>2021</b> , 191, 110353	3.7	3
1744	Enhancement of unidirectional forward scattering and suppression of backward scattering in hollow silicon nanoblocks. <i>Applied Optics</i> , <b>2021</b> , 60, 8737-8743	1.7	0
1743	Degradation of tetracycline in water by gas-liquid plasma in conjunction with rGO-TiO <sub>2</sub> nanocomposite. <i>Plasma Science and Technology</i> , <b>2021</b> , 23, 115503	1.5	0
1742	Plasma-activated thermosensitive biogel as an exogenous ROS carrier for post-surgical treatment of cancer. <i>Biomaterials</i> , <b>2021</b> , 276, 121057	15.6	9
1741	Insights into enhancement of photocatalytic properties of g-C <sub>3</sub> N <sub>4</sub> by local electric field induced by polarization of MgO(111). <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105922	6.8	5
1740	and antibacterial performance of Zr & O PIII magnesium alloys with high concentration of oxygen vacancies. <i>Bioactive Materials</i> , <b>2021</b> , 6, 3049-3061	16.7	4
1739	Waste-glass-derived silicon/CNTs composite with strong Si-C covalent bonding for advanced anode materials in lithium-ion batteries. <i>Applied Surface Science</i> , <b>2021</b> , 563, 150280	6.7	9
1738	Development and application of fuel cells in the automobile industry. <i>Journal of Energy Storage</i> , <b>2021</b> , 42, 103124	7.8	16
1737	Experimental and theoretical investigation of reconstruction and active phases on honeycombed Ni <sub>3</sub> N-Co <sub>3</sub> N/C in water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120461	21.8	15
1736	A high-performance electrocatalyst composed of nickel clusters encapsulated with a carbon network on TiN nanowire arrays for the oxygen evolution reaction. <i>Applied Surface Science</i> , <b>2021</b> , 567, 150779	6.7	6
1735	Hybrid photovoltaic-triboelectric nanogenerators for simultaneously harvesting solar and mechanical energies. <i>Nano Energy</i> , <b>2021</b> , 89, 106376	17.1	6
1734	Co-doped Ni <sub>3</sub> S <sub>2</sub> porous nanocones as high-performance bifunctional electrocatalysts in water splitting. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130455	14.7	12
1733	Design of bimetal-coated photonic crystal fiber filter based on surface plasmon resonance. <i>Results in Optics</i> , <b>2020</b> , 1, 100027	1	5



1732	Facile Synthesis of MnO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /CC as Positive Electrode of All-Solid-State Flexible Asymmetric Supercapacitor. <i>ChemistrySelect</i> , <b>2020</b> , 5, 14768-14775	1.8	7
1731	Improvement of the Laser-Welded Lap Joint of Dissimilar Mg Alloy and Cu by Incorporation of a Zn Interlayer. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
1730	Reducing Migration of Sintered Ag for Power Devices Operating at High Temperature. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 12646-12650	7.2	4
1729	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25108-25114	9.5	15
1728	High-Potential surface on zirconia ceramics for bacteriostasis and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 193, 111074	6	4
1727	Photochemical Activity of Black Phosphorus for Near-Infrared Light Controlled In Situ Biomineralization. <i>Advanced Science</i> , <b>2020</b> , 7, 2000439	13.6	21
1726	Design and synthesis of dendritic Co <sub>3</sub> O <sub>4</sub> @Co <sub>2</sub> (CO <sub>3</sub> )(OH) <sub>2</sub> nanoarrays on carbon cloth for high-performance supercapacitors. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 12091-12102	4.3	17
1725	Effects of Ion Energy and Density on the Plasma Etching-Induced Surface Area, Edge Electrical Field, and Multivacancies in MoSe Nanosheets for Enhancement of the Hydrogen Evolution Reaction. <i>Small</i> , <b>2020</b> , 16, e2001470	11	16
1724	Strain-enhanced power conversion efficiency of a BP/SnSe van der Waals heterostructure. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 14787-14795	3.6	7
1723	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14489-14493	3.6	1
1722	Sensitive and selective ctDNA detection based on functionalized black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 165, 112384	11.8	15
1721	Wafer-scale growth of single-crystal graphene on vicinal Ge(001) substrate. <i>Nano Today</i> , <b>2020</b> , 34, 100908	17.9	14
1720	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14383-14387	16.4	35
1719	Biomimetic osteogenic peptide with mussel adhesion and osteoimmunomodulatory functions to ameliorate interfacial osseointegration under chronic inflammation. <i>Biomaterials</i> , <b>2020</b> , 255, 120197	15.6	41
1718	Nanopatterned silk-coated AZ31 magnesium alloy with enhanced antibacterial and corrosion properties. <i>Materials Science and Engineering C</i> , <b>2020</b> , 116, 111173	8.3	8
1717	Interface Engineering-Assisted 3D-Graphene/Germanium Heterojunction for High-Performance Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15606-15614	9.5	22
1716	Two-Dimensional Transition Metal Chalcogenides for Alkali Metal Ions Storage. <i>ChemSusChem</i> , <b>2020</b> , 13, 1114-1154	8.3	37
1715	Sandwich-Structured Transition Metal Oxide/Graphene/Carbon Nanotube Composite Yarn Electrodes for Flexible Two-Ply Yarn Supercapacitors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 5752-5759	3.9	11

1714	Surface plasmon resonance sensor based on photonic crystal fiber with indium tin oxide film. <i>Optical Materials</i> , <b>2020</b> , 102, 109800	3.3	35
1713	Vertical kinetically oriented MoS <sub>2</sub> /Mo <sub>2</sub> N heterostructures on carbon cloth: a highly efficient hydrogen evolution electrocatalyst. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 2201-2207	5.8	18
1712	Photoluminescence Properties of GaN Nanowires Grown in a Gradient-Plasma Environment. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16002-16008	3.8	2
1711	Dynamic changes of hydrophobic behavior during icing. <i>Surface and Coatings Technology</i> , <b>2020</b> , 397, 126043	4.3	4
1710	Graphene Quantum Dot-Decorated Vertically Oriented Graphene/Germanium Heterojunctions for Near-Infrared Photodetectors. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6915-6924	5.6	8
1709	Toroidal dipole and magnetic multipole excitations from the same nanostructure with different direction of electric dipole emitters. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	1
1708	A zipped-up tunable metal coordinated cationic polymer for nanomedicine. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 1350-1358	7.3	1
1707	Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. <i>Optics Communications</i> , <b>2020</b> , 464, 125496	2	69
1706	Enhanced Peltier Effect in Wrinkled Graphene Constriction by Nano-Bubble Engineering. <i>Small</i> , <b>2020</b> , 16, e1907170	11	14
1705	Nano-second temporal particle behavior in high-power impulse magnetron sputtering discharge in a cylindrical cathode. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 023301	2.5	2
1704	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <i>Materials Science and Engineering Reports</i> , <b>2020</b> , 140, 100543	30.9	241
1703	Near-infrared surface plasmon resonance sensor based on photonic crystal fiber with big open rings. <i>Optik</i> , <b>2020</b> , 207, 164466	2.5	20
1702	Enhanced interfacial adhesion and osseointegration of anodic TiO nanotube arrays on ultra-fine-grained titanium and underlying mechanisms. <i>Acta Biomaterialia</i> , <b>2020</b> , 106, 360-375	10.8	17
1701	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1052-1058	6.4	36
1700	Improving the performance of light-emitting diodes via plasmonic-based strategies. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 040901	2.5	17
1699	Comparative study of TiAlN coatings deposited by different high-ionization physical vapor deposition techniques. <i>Ceramics International</i> , <b>2020</b> , 46, 10814-10819	5.1	10
1698	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002731	15.6	38
1697	Effects of Ti, Ni, and Dual Ti/Ni Plasma Immersion Ion Implantation on the Corrosion and Wear Properties of Magnesium Alloy. <i>Coatings</i> , <b>2020</b> , 10, 313	2.9	7

1696	Ultrathin hybrid nanobelts of single-crystalline VO <sub>2</sub> and Poly(3,4-ethylenedioxythiophene) as cathode materials for aqueous zinc ion batteries with large capacity and high-rate capability. <i>Journal of Power Sources</i> , <b>2020</b> , 463, 228223	8.9	26
1695	Articular cartilage inspired bilayer coating on Ti6Al4V alloy with low friction and high load-bearing properties. <i>Applied Surface Science</i> , <b>2020</b> , 515, 146065	6.7	6
1694	Ferroelectric Enhanced Performance of a GeSn/Ge Dual-Nanowire Photodetector. <i>Nano Letters</i> , <b>2020</b> , 20, 3872-3879	11.5	21
1693	Neural network-based multiobjective optimization algorithm for nonlinear beam dynamics. <i>Physical Review Accelerators and Beams</i> , <b>2020</b> , 23,	1.8	3
1692	High-sensitivity SPR sensor based on the eightfold eccentric core PQF with locally coated indium tin oxide. <i>Applied Optics</i> , <b>2020</b> , 59, 6484-6489	1.7	2
1691	Ag as Cocatalyst and Electron-Hole Medium in CeO QDs/Ag/AgSe Z-scheme Heterojunction Enhanced the Photo-Electrocatalytic Properties of the Photoelectrode. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
1690	A novel self-branching MnCo <sub>2</sub> O <sub>4</sub> / nanographene hybrid composites on macroporous electrically conductive network as bifunctional electrodes for boosting miniature supercapacitors and sodium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 846, 155720	5.7	7
1689	The electrical, thermal, and thermoelectric properties of black phosphorus. <i>APL Materials</i> , <b>2020</b> , 8, 120903	9.7	5
1688	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/ $\beta$ -catenin signaling pathway activation. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 152-167	10.8	32
1687	EIS and noise study of zirconia-alumina- benzotriazole nano-composite coating applied on Al <sub>2</sub> O <sub>3</sub> by the sol-gel method. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152662	5.7	3
1686	Self-Regulated Super-Hydrophobic Cu/CuO Electrode Film Deposited by One-Step High-Power Sputtering. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900891	6.4	6
1685	Ultrathin carbon layer-encapsulated TiN nanotubes array with enhanced capacitance and electrochemical stability for supercapacitors. <i>Applied Surface Science</i> , <b>2020</b> , 503, 144293	6.7	8
1684	Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium. <i>Advanced Science</i> , <b>2020</b> , 7, 1902089	13.6	20
1683	Graphite felt incorporated with MoS <sub>2</sub> /rGO for electrochemical detoxification of high-arsenic fly ash. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122763	14.7	12
1682	Stability and Sensing Enhancement by Nanocubic CeO with {100} Polar Facets on Graphene for NO at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4722-4731	9.5	12
1681	Dual light-induced in situ antibacterial activities of biocompatibleTiO/MoS/PDA/RGD nanorod arrays on titanium. <i>Biomaterials Science</i> , <b>2020</b> , 8, 391-404	7.4	25
1680	A hybrid Co NPs@CNT nanocomposite as highly efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145155	6.7	23
1679	Atomic-Scale Intercalation of Graphene Layers into MoSe Nanoflower Sheets as a Highly Efficient Catalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2460-2468	9.5	21

1678	In situ formation of N-doped carbon-coated porous MoP nanowires: a highly efficient electrocatalyst for hydrogen evolution reaction in a wide pH range. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 263, 118358	21.8	59
1677	Tuning the surface immunomodulatory functions of polyetheretherketone for enhanced osseointegration. <i>Biomaterials</i> , <b>2020</b> , 230, 119642	15.6	51
1676	Analysis of defect states in optical microcavities based on the photonic quantum well structure. <i>Optics Communications</i> , <b>2020</b> , 458, 124880	2	1
1675	Numerical analysis of a high-birefringent photonic quasi-crystal fiber with circular air holes. <i>Optik</i> , <b>2020</b> , 207, 163850	2.5	2
1674	Recent advances of two-dimensional transition metal nitrides for energy storage and conversion applications. <i>FlatChem</i> , <b>2020</b> , 19, 100149	5.1	31
1673	Hollow Spheres Consisting of SnS Nanosheets Conformally Coated with S-Doped Carbon for Advanced Lithium-/Sodium-Ion Battery Anodes. <i>ChemElectroChem</i> , <b>2020</b> , 7, 914-921	4.3	13
1672	Dimensional-dependent antibacterial behavior on bioactive micro/nano polyetheretherketone (PEEK) arrays. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123736	14.7	25
1671	Freestanding, Hierarchical, and Porous Bilayered NaVO <sub>2</sub> /HO/rGO/CNT Composites as High-Performance Cathode Materials for Nonaqueous K-Ion Batteries and Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 706-716	9.5	53
1670	2D black phosphorus dotted with silver nanoparticles: An excellent lubricant additive for tribological applications. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123631	14.7	35
1669	Biodegradable Bi O Se Quantum Dots for Photoacoustic Imaging-Guided Cancer Photothermal Therapy. <i>Small</i> , <b>2020</b> , 16, e1905208	11	34
1668	Hierarchical micro-flowers self-assembled from SnS monolayers and nitrogen-doped graphene lamellar nanosheets as advanced anode for lithium-ion battery. <i>Electrochimica Acta</i> , <b>2020</b> , 331, 135292	6.7	16
1667	Recent Progress in Electrode Materials for Nonaqueous Lithium-Ion Capacitors. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 2652-2667	1.3	10
1666	Wrinkled-Surface-Induced Memristive Behavior of MoS <sub>2</sub> Wrapped GaN Nanowires. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000571	6.4	2
1665	Study of TiAlN coatings deposited by continuous high power magnetron sputtering (C-HPMS). <i>Surface and Coatings Technology</i> , <b>2020</b> , 402, 126315	4.4	5
1664	From Octahedron Crystals to 2D Silicon Nanosheets: Facet-Selective Cleavage and Biophotonic Applications. <i>Small</i> , <b>2020</b> , 16, e2003594	11	5
1663	Calcium phosphate coating on biomedical WE43 magnesium alloy pretreated with a magnesium phosphate layer for corrosion protection. <i>Surface and Coatings Technology</i> , <b>2020</b> , 401, 126248	4.4	9
1662	Gate-tunable two-dimensional superconductivity revealed in flexible wafer-scale hybrid structures. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 14605-14610	7.1	0
1661	Robust and durable surperhydrophobic F-DLC coating for anti-icing in aircrafts engineering. <i>Surface and Coatings Technology</i> , <b>2020</b> , 404, 126468	4.4	8

1660	Surface plasmon resonance sensor based on coupling effects of dual photonic crystal fibers for low refractive indexes detection. <i>Results in Physics</i> , <b>2020</b> , 18, 103240	3.7	23
1659	Pd/ZnO/Ni photoelectrochemical ethanol sensor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 401, 112785	4.7	0
1658	Mediated Drug Release from Nanovehicles by Black Phosphorus Quantum Dots for Efficient Therapy of Chronic Obstructive Pulmonary Disease. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20568-20576	16.4	27
1657	Calcium Phosphate Mineralized Black Phosphorous with Enhanced Functionality and Anticancer Bioactivity. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003069	15.6	20
1656	Flexible Surface-Enhanced Raman Scattering Chip: A Universal Platform for Real-Time Interfacial Molecular Analysis with Femtomolar Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> ,	9.5	17
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1653	Needle-like CoO nanowire composites with NiO nanosheets on carbon cloth for hybrid flexible supercapacitors and overall water splitting electrodes.. <i>RSC Advances</i> , <b>2020</b> , 10, 37489-37499	3.7	11
1652	Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. <i>Electrochimica Acta</i> , <b>2020</b> , 358, 136902	6.7	1
1651	Nitrogen-doped carbon coated TiC nanofiber arrays deposited on Ti-6Al-4V for selective and sensitive electrochemical detection of dopamine. <i>Surface and Coatings Technology</i> , <b>2020</b> , 402, 126266	4.4	1
1650	Intercalator-assisted plasma-liquid technology: an efficient exfoliation method for few-layer two-dimensional materials. <i>Science China Materials</i> , <b>2020</b> , 63, 2079-2085	7.1	2
1649	Zirconium-based nanostructured coating on the Mg-4Y-3RE alloy for corrosion retardation. <i>Chemical Physics Letters</i> , <b>2020</b> , 756, 137824	2.5	5
1648	Formation of self-layered hydrothermal coating on magnesium aided by titanium ion implantation: Synergistic control of corrosion resistance and cytocompatibility. <i>Surface and Coatings Technology</i> , <b>2020</b> , 401, 126251	4.4	5
1647	Hierarchical binder-free MnO <sub>2</sub> /TiO <sub>2</sub> composite nanostructure on flexible seed graphite felt for high-performance supercapacitors. <i>Vacuum</i> , <b>2020</b> , 181, 109648	3.7	13
1646	In-Situ Synthesis of Heterostructured Carbon-Coated Co/MnO Nanowire Arrays for High-Performance Anodes in Asymmetric Supercapacitors. <i>Molecules</i> , <b>2020</b> , 25,	4.8	4
1645	Mediated Drug Release from Nanovehicles by Black Phosphorus Quantum Dots for Efficient Therapy of Chronic Obstructive Pulmonary Disease. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20749-20757	3.6	1
1644	Forward and Backward Unidirectional Scattering by the Core-Shell Nanocube Dimer with Balanced Gain and Loss. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
1643	Tuning surface topographies on biomaterials to control bacterial infection. <i>Biomaterials Science</i> , <b>2020</b> , 8, 6840-6857	7.4	18



1642	Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. <i>Nano Energy</i> , <b>2020</b> , 78, 105234	17.1	81
1641	Influence of Acetylene on Ti Target Poisoning During Pulse-Enhanced Vacuum Arc Evaporation. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 2799-2809	1.3	
1640	A tailored positively-charged hydrophobic surface reduces the risk of implant associated infections. <i>Acta Biomaterialia</i> , <b>2020</b> , 114, 421-430	10.8	10
1639	Phase-Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , <b>2020</b> , 7, 2000602	13.6	38
1638	Enhanced discharge and surface properties of TiSiCN coatings deposited by pulse-enhanced vacuum arc evaporation. <i>Surface and Coatings Technology</i> , <b>2020</b> , 403, 126413	4.4	3
1637	Biofunctional Elements Incorporated Nano/Microstructured Coatings on Titanium Implants with Enhanced Osteogenic and Antibacterial Performance. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2000681	10.1	17
1636	A Quantitative Bacteria Monitoring and Killing Platform Based on Electron Transfer from Bacteria to a Semiconductor. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003616	24	13
1635	In situ Synthesizing Carbon-Based Film by Tribo-Induced Catalytic Degradation of Poly- $\alpha$ -Olefin Oil for Reducing Friction and Wear. <i>Langmuir</i> , <b>2020</b> , 36, 10555-10564	4	6
1634	Corrosion Behavior and Mechanism of Carbon Ion-Implanted Magnesium Alloy. <i>Coatings</i> , <b>2020</b> , 10, 734	2.9	2
1633	Ambipolar Plasmon-Enhanced Photodetector Built on Germanium Nanodots Array/Graphene Hybrid. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001122	4.6	5
1632	Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells on Amine-Functionalized Titanium Using Humidified Ammonia Supplied Nonthermal Atmospheric Pressure Plasma. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
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1630	Investigation of Indenter-Size-Dependent Nanoplasticity of Silicon by Molecular Dynamics Simulation. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3039-3047	4	2
1629	Lubricating performances of graphene oxide and onion-like carbon as water-based lubricant additives for smooth and sand-blasted steel discs. <i>Friction</i> , <b>2020</b> , 8, 47-57	5.6	24
1628	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. <i>Electrochemical Energy Reviews</i> , <b>2020</b> , 3, 395-430	29.3	39
1627	Synthesis of tetragonal prismatic $\text{In}_2\text{Se}_3$ nanostructures with predominantly {110} facets and photocatalytic degradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118218	21.8	44
1626	Efficient electromagnetic wave absorption by SiC/Ni/NiO/C nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152519	5.7	20
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1623	Reconstructed chitosan with alkylamine for enhanced gene delivery by promoting endosomal escape. <i>Carbohydrate Polymers</i> , <b>2020</b> , 227, 115339	10.3	21
1622	A bifunctional hydrogel incorporated with CuS@MoS <sub>2</sub> microspheres for disinfection and improved wound healing. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122849	14.7	65
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1619	Bioactive phospho-therapy with black phosphorus for tumor suppression. <i>Theranostics</i> , <b>2020</b> , 10, 4720-4736	17.6	11
1618	Ultrafine Co nanodots embedded in N-doped carbon nanotubes grafted on hexagonal VN for highly efficient overall water splitting. <i>Nano Energy</i> , <b>2020</b> , 73, 104788	17.1	38
1617	Facile mass production of self-supported two-dimensional transition metal oxides for catalytic applications. <i>Chemical Communications</i> , <b>2019</b> , 55, 11406-11409	5.8	7
1616	Localized Surface Plasmon Resonance Properties of Concentric Dual-Ring Nanodisk. <i>Nano</i> , <b>2019</b> , 14, 1950071	1.1	
1615	3D-printed nanocomposite scaffolds with tunable magnesium ionic microenvironment induce in situ bone tissue regeneration. <i>Applied Materials Today</i> , <b>2019</b> , 16, 493-507	6.6	20
1614	Enhanced oxygen-induced properties of bulk oxygenated amorphous carbon films deposited with an anode layer ion source. <i>Vacuum</i> , <b>2019</b> , 169, 108915	3.7	4
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1612	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37787-37795	9.5	24
1611	Effects of Benzotriazole on nano-mechanical properties of zirconiaaluminaBenzotriazole nanocomposite coating deposited on Al 2024 by the sol-gel method. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	4
1610	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. <i>Materials Horizons</i> , <b>2019</b> , 6, 176-181	14.4	39
1609	Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 366-381	5.8	154
1608	Discharge and Deposition Characteristics of High-Power Impulse Magnetron Sputtering Using Various Target Materials. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 193-198	1.3	5
1607	Synergistic Antibacterial Activity of Black Phosphorus Nanosheets Modified with Titanium Aminobenzenesulfanato Complexes. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1202-1209	5.6	25

1606	Spontaneous single-crystal to single-crystal transition with self-healing cracks involving solvent exchange. <i>CrystEngComm</i> , <b>2019</b> , 21, 1102-1106	3.3	6
1605	Achieving an acid resistant surface on magnesium alloy via bio-inspired design. <i>Applied Surface Science</i> , <b>2019</b> , 478, 150-161	6.7	34
1604	Modulation of resistive switching in Pt/LiCoO <sub>2</sub> /SiO <sub>2</sub> /Si stacks. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 4753-4759	2.1	2
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1600	InSe Nanosheets for Efficient NIR-II-Responsive Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 27521-27528	9.5	19
1599	Stability and Repeatability of a Karst-like Hierarchical Porous Silicon Oxide-Based Memristor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21734-21740	9.5	8
1598	Multifunctional nitrogen-doped nanoporous carbons derived from metal-organic frameworks for efficient CO <sub>2</sub> storage and high-performance lithium-ion batteries. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 10405-10412	3.6	11
1597	Optical and Optoelectronic Properties of Black Phosphorus and Recent Photonic and Optoelectronic Applications. <i>Small Methods</i> , <b>2019</b> , 3, 1900165	12.8	43
1596	General synthesis of NiCo alloy nanochain arrays with thin oxide coating: a highly efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 1216-1223	5.7	27
1595	Microwave synthesis and enhancement of power factors of Hf <sub>x</sub> Ti <sub>1-x</sub> NiSn. <i>Materials Letters</i> , <b>2019</b> , 251, 13-17	3.3	2
1594	High-Efficiency Dual-Frequency Reflective Linear Polarization Converter Based on Metasurface for Microwave Bands. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1910	2.6	8
1593	Dual-band unidirectional forward scattering of AuBi sliced nanorod in the visible region. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	3
1592	Formation of ultra-small Mn <sub>3</sub> O <sub>4</sub> nanoparticles trapped in nanochannels of hollow carbon spheres by nanoconfinement with excellent supercapacitor performance. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 13675-13683	6.7	13
1591	Bioactive inorganic-ion-doped titania nanotube coatings on bone implants with enhanced osteogenic activity and antibacterial properties <b>2019</b> , 401-427		
1590	Simultaneous texturing and conductivity tailoring of mesoporous NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanocrystals by gadolinium doping for enhanced Na storage. <i>Electrochimica Acta</i> , <b>2019</b> , 309, 177-186	6.7	11
1589	Optical diode composed of subwavelength slit-groove arrays with ultrahigh transmission contrast based on surface plasmon polariton. <i>Optik</i> , <b>2019</b> , 186, 266-274	2.5	3

1588	N-doped TiO nanotube arrays with uniformly embedded Co P nanoparticles for high-efficiency hydrogen evolution reaction.. <i>RSC Advances</i> , <b>2019</b> , 9, 11676-11682	3.7	4
1587	Investigation of corrosion mechanism of NiTi modified by carbon plasma immersion ion implantation (C-PIII) by electrochemical impedance spectroscopy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 790, 1067-1075	5.7	8
1586	Template growth of Au/Ag nanocomposites on phosphorene for sensitive SERS detection of pesticides. <i>Nanotechnology</i> , <b>2019</b> , 30, 275604	3.4	11
1585	Octahedral SnO/Graphene Composites with Enhanced Gas-Sensing Performance at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12958-12967	9.5	29
1584	Vanadium Dioxide Nanocoating Induces Tumor Cell Death through Mitochondrial Electron Transport Chain Interruption. <i>Global Challenges</i> , <b>2019</b> , 3, 1800058	4.3	13
1583	A high-birefringent photonic quasi-crystal fiber with two elliptical air holes. <i>Optik</i> , <b>2019</b> , 184, 10-15	2.5	7
1582	A Novel Hybrid-Layered Organic Phototransistor Enables Efficient Intermolecular Charge Transfer and Carrier Transport for Ultrasensitive Photodetection. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900763	24	61
1581	Lithium ion trapping mechanism of SiO in LiCoO based memristors. <i>Scientific Reports</i> , <b>2019</b> , 9, 5081	4.9	9
1580	Stimulus-responsive electrochemiluminescence from self-assembled block copolymer and nonpolar carbon quantum dot composite nanospheres. <i>Carbon</i> , <b>2019</b> , 147, 532-539	10.4	8
1579	Inconel 718 treated with two-stage solution and aging processes: microstructure evolution and enhanced properties. <i>Materials Research Express</i> , <b>2019</b> , 6, 075803	1.7	5
1578	Modification of Layered Graphitic Carbon Nitride by Nitrogen Plasma for Improved Electrocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	11
1577	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , <b>2019</b> , 3, 1900083	12.8	34
1576	A surface-engineered polyetheretherketone biomaterial implant with direct and immunoregulatory antibacterial activity against methicillin-resistant Staphylococcus aureus. <i>Biomaterials</i> , <b>2019</b> , 208, 8-20	15.6	64
1575	Controlled fiberization of dipeptide in merging phases leads to collagen-level strength and opto/electric mechanofunctionalities. <i>Biomaterials</i> , <b>2019</b> , 208, 1-7	15.6	2
1574	Ecofriendly and Biodegradable Soybean Protein Isolate Films Incorporated with ZnO Nanoparticles for Food Packaging.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 2202-2207	4.1	20
1573	Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , <b>2019</b> , 10, 1447	17.4	293
1572	Mo2C/VC heterojunction embedded in graphitic carbon network: An advanced electrocatalyst for hydrogen evolution. <i>Nano Energy</i> , <b>2019</b> , 60, 520-526	17.1	76
1571	Excellent Lubricating Ability of Functionalization Graphene Dispersed in Perfluoropolyether for Titanium Alloy. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1391-1401	5.6	10

1570	Three-dimensional carbon-coating silicon nanoparticles welded on carbon nanotubes composites for high-stability lithium-ion battery anodes. <i>Applied Surface Science</i> , <b>2019</b> , 479, 896-902	6.7	32
1569	Hollow cathode effect modified time-dependent global model and high-power impulse magnetron sputtering discharge and transport in cylindrical cathode. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 063302	2.5	5
1568	Tailored Plum Pudding-Like Co <sub>2</sub> P/Sn Encapsulated with Carbon Nanobox Shell as Superior Anode Materials for High-Performance Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900091	21.8	50
1567	Enhanced mechanical and electrochemical properties of TiN <sub>x</sub> thin films prepared by magnetron sputtering with an anode layer ion source. <i>Surface and Coatings Technology</i> , <b>2019</b> , 365, 253-260	4.4	3
1566	Biaxially strained germanium micro-dot array by hydrogen ion implantation. <i>Surface and Coatings Technology</i> , <b>2019</b> , 365, 248-252	4.4	1
1565	High-performance anode materials based on 3D orderly and vertically macroporous graphene-Si framework for Li-ion batteries. <i>Ionics</i> , <b>2019</b> , 25, 467-473	2.7	4
1564	In situ formation of porous TiO <sub>2</sub> nanotube array with MgTiO <sub>3</sub> nanoparticles for enhanced photocatalytic activity. <i>Surface and Coatings Technology</i> , <b>2019</b> , 365, 222-226	4.4	8
1563	Effects of ion flux density and energy on the composition of TiN <sub>x</sub> thin films prepared by magnetron sputtering with an anode layer ion source. <i>Surface and Coatings Technology</i> , <b>2019</b> , 365, 58-64	4.4	4
1562	Orthopedic Implants <b>2019</b> , 425-439		12
1561	Antibacterial and Cytocompatible Nanoengineered Silk-Based Materials for Orthopedic Implants and Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31605-31614	9.5	18
1560	Electrostatic Self-Assembly of TiCT MXene and Gold Nanorods as an Efficient Surface-Enhanced Raman Scattering Platform for Reliable and High-Sensitivity Determination of Organic Pollutants. <i>ACS Sensors</i> , <b>2019</b> , 4, 2303-2310	9.2	53
1559	Lithiated NiCoO Nanorods Anchored on 3D Nickel Foam Enable Homogeneous Li Plating/Stripping for High-Power Dendrite-Free Lithium Metal Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31824-31831	9.5	26
1558	Ex-centric core photonic crystal fiber sensor with gold nanowires based on surface plasmon resonance. <i>Optik</i> , <b>2019</b> , 196, 163173	2.5	24
1557	NiFeP nanoflakes composite with CoP on carbon cloth as flexible and durable electrocatalyst for efficient overall water splitting. <i>Nanotechnology</i> , <b>2019</b> , 30, 485402	3.4	3
1556	Boundary and Elastohydrodynamic Lubrication Behaviors of Nano-CuO/Reduced Graphene Oxide Nanocomposite as an Efficient Oil-Based Additive. <i>Langmuir</i> , <b>2019</b> , 35, 10322-10333	4	6
1555	Nano-mechanical properties of zirconia-alumina-benzotriazole nano-composite coating deposited on Al <sub>2</sub> O <sub>3</sub> by the sol-gel method. <i>Thin Solid Films</i> , <b>2019</b> , 689, 137417	2.2	8
1554	A functionalized TiO/MgTiO nano-layer on biodegradable magnesium implant enables superior bone-implant integration and bacterial disinfection. <i>Biomaterials</i> , <b>2019</b> , 219, 119372	15.6	46
1553	Interconnected nanoporous carbon structure delivering enhanced mass transport and conductivity toward exceptional performance in supercapacitor. <i>Journal of Power Sources</i> , <b>2019</b> , 435, 226811	8.9	16

1552	Al <sub>2</sub> O <sub>3</sub> coating for densification of SiC ceramics and sintering kinetics. <i>Surface and Coatings Technology</i> , <b>2019</b> , 374, 603-609	4.4	5
1551	Effect of Ti interlayer on corrosion behavior of nanostructured Ti/TiN multilayer coating deposited on TiAl <sub>6</sub> V <sub>4</sub> . <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 2113-2127	1.6	4
1550	Unique Role of Arginine in Positively-Charged Surface for Promotion of Antibacterial and Osteogenetic Capabilities. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901414	4.6	1
1549	Tungsten-Doped CoP Nanoneedle Arrays Grown on Carbon Cloth as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , <b>2019</b> , 6, 5229-5236	4.3	23
1548	Influence of plasma excitation power on mechanical property and biocompatibility of titania/alumina composite thin films for medical implant prepared by magnetron sputtering. <i>Materials Research Express</i> , <b>2019</b> , 6, 116418	1.7	
1547	Surface plasmon resonance sensor based on eccentric core photonic quasi-crystal fiber with indium tin oxide. <i>Applied Optics</i> , <b>2019</b> , 58, 6848-6853	1.7	16
1546	Photonic spin Hall effect: a new window in D-shaped fiber by weak measurements. <i>Optics Express</i> , <b>2019</b> , 27, 14064-14074	3.3	2
1545	Black Phosphorus: An Effective Feedstock for the Synthesis of Phosphorus-Based Chemicals. <i>CCS Chemistry</i> , <b>2019</b> , 1, 166-172	7.2	5
1544	Tuning Superhydrophobic Materials with Negative Surface Energy Domains. <i>Research</i> , <b>2019</b> , 2019, 1391804	7.0	10
1543	Dual-band directional scattering with all-dielectric trimer in the near-infrared region. <i>Applied Optics</i> , <b>2019</b> , 58, 5082-5089	1.7	2
1542	Fano resonances in symmetric plasmonic split-ring/ring dimer nanostructures. <i>Applied Optics</i> , <b>2019</b> , 58, 8069-8074	1.7	
1541	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. <i>Chemical Communications</i> , <b>2019</b> , 56, 221-224	5.8	15
1540	Co <sub>3</sub> O <sub>4</sub> and Co(OH) <sub>2</sub> loaded graphene on Ni foam for high-performance supercapacitor electrode. <i>Ionics</i> , <b>2019</b> , 25, 1783-1792	2.7	11
1539	Temperature-responsive tungsten doped vanadium dioxide thin film starves bacteria to death. <i>Materials Today</i> , <b>2019</b> , 22, 35-49	21.8	18
1538	Spatially controlled synthesis of superlattice-like SnS/nitrogen-doped graphene hybrid nanobelts as high-rate and durable anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27475-27483	13	21
1537	Theoretical assessment of a highly sensitive photonic crystal fibre based on surface plasmon resonance sensor operating in the near-infrared wavelength. <i>Journal of Modern Optics</i> , <b>2019</b> , 66, 1-6	1.1	53
1536	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14-37	13	109
1535	Evolution of microstructures and properties of the GH4169 superalloy during short-term and high-temperature processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 744, 255-266	5.3	22

1534	Self-supported electrodes composed of silicon nanocrystals in 3D hierarchical carbon network for reversible sodium storage. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 2732-2742	2.1	1
1533	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , <b>2019</b> , 6, 1801321	13.6	55
1532	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 769-774	16.4	73
1531	Preferential production of reactive species and bactericidal efficacy of gas-liquid plasma discharge. <i>Chemical Engineering Journal</i> , <b>2019</b> , 362, 402-412	14.7	52
1530	Conductive Mesoporous Niobium Nitride Microspheres/Nitrogen-Doped Graphene Hybrid with Efficient Polysulfide Anchoring and Catalytic Conversion for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2961-2969	9.5	47
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1528	Selective and high-sensitive label-free detection of ascorbic acid by carbon nitride quantum dots with intense fluorescence from lone pair states. <i>Talanta</i> , <b>2019</b> , 196, 530-536	6.2	15
1527	Air-stable n-doped black phosphorus transistor by thermal deposition of metal adatoms. <i>Nanotechnology</i> , <b>2019</b> , 30, 135201	3.4	13
1526	Activation of graphitic carbon nitride by surface discharge plasma treatment for enhanced photocatalysis. <i>Vacuum</i> , <b>2019</b> , 159, 235-238	3.7	5
1525	High-efficiency hydrogen evolution from seawater using hetero-structured T/Td phase ReS <sub>2</sub> nanosheets with cationic vacancies. <i>Nano Energy</i> , <b>2019</b> , 55, 42-48	17.1	68
1524	Molybdenum diselenide/black phosphorus heterostructures for electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 328-334	6.7	34
1523	Near-infrared light control of bone regeneration with biodegradable photothermal osteoimplant. <i>Biomaterials</i> , <b>2019</b> , 193, 1-11	15.6	97
1522	Hierarchical MoS <sub>2</sub> @N-Doped Carbon Hollow Spheres with Enhanced Performance in Sodium Dual-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 661-667	4.3	17
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1520	Corrosion protection and enhanced biocompatibility of biomedical Mg-Y-RE alloy coated with tin dioxide. <i>Surface and Coatings Technology</i> , <b>2019</b> , 357, 78-82	4.4	16
1519	High-ion-energy and low-temperature deposition of diamond-like carbon (DLC) coatings with pulsed kV bias. <i>Surface and Coatings Technology</i> , <b>2019</b> , 365, 152-157	4.4	14
1518	Abrasion and erosion behavior of DLC-coated oil-well tubings in a heavy oil/sand environment. <i>Surface and Coatings Technology</i> , <b>2019</b> , 357, 379-383	4.4	7
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1507	Investigation of Corrosion Behavior of Ti/TiN Multilayers on Al7075 Deposited by High-Vacuum Magnetron Sputtering in 3.5% NaCl Solution. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 2216-2225	1.6	2
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1472	Effects of Duty Cycle on Texture Orientation and Composition of TiCx Nanostructured coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 642-647	0.9	1
1471	Oxygen Vacancy Enhanced Gas-Sensing Performance of CeO/Graphene Heterostructure at Room Temperature. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9821-9829	7.8	49
1470	Construction of perfluorohexane/IR780@liposome coating on Ti for rapid bacteria killing under permeable near infrared light. <i>Biomaterials Science</i> , <b>2018</b> , 6, 2460-2471	7.4	19
1469	Roles of membrane protein damage and intracellular protein damage in death of bacteria induced by atmospheric-pressure air discharge plasmas.. <i>RSC Advances</i> , <b>2018</b> , 8, 21139-21149	3.7	14
1468	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. <i>Acta Biomaterialia</i> , <b>2018</b> , 77, 352-364	10.8	111
1467	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> , <b>2018</b> , 174, 1-16	15.6	92
1466	In Situ Synthesis of MoP Nanoflakes Intercalated N-Doped Graphene Nanobelts from MoO <sub>3</sub> -Amine Hybrid for High-Efficient Hydrogen Evolution Reaction. <i>Small</i> , <b>2018</b> , 14, e1800667	11	66
1465	Comparison of the Effects Induced by Plasma Generated Reactive Species and H <sub>2</sub> O <sub>2</sub> on Lactate Dehydrogenase (LDH) Enzyme. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 2742-2752	1.3	13
1464	K <sub>2</sub> MgSi <sub>3</sub> O <sub>8</sub> in Slow-Release Mineral Fertilizer Prepared by Sintering of By-Product of Red Mud-Based Flocculant. <i>Environmental Engineering Science</i> , <b>2018</b> , 35, 829-835	2	5
1463	Magnetron-sputtered fluorocarbon polymeric film on magnesium for corrosion protection. <i>Surface and Coatings Technology</i> , <b>2018</b> , 352, 437-444	4.4	11

1462	Ni-doped amorphous iron phosphide nanoparticles on TiN nanowire arrays: An advanced alkaline hydrogen evolution electrocatalyst. <i>Nano Energy</i> , <b>2018</b> , 53, 66-73	17.1	72
1461	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , <b>2018</b> , 52, 360-368	17.1	88
1460	Multi-wavelength unidirectional forward scattering in the visible range in an all-dielectric silicon hollow nanodisk. <i>Applied Optics</i> , <b>2018</b> , 57, 4771-4776	1.7	7
1459	Zinc-Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. <i>Advanced Science</i> , <b>2018</b> , 5, 1800749	13.6	102
1458	Morphological control of gold nanorods via thermally driven bi-surfactant growth and application for detection of heavy metal ions. <i>Nanotechnology</i> , <b>2018</b> , 29, 334001	3.4	5
1457	Tuning the Bandgap of Photo-Sensitive Polydopamine/AgPO/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , <b>2018</b> , 4, 724-738	16.8	168
1456	Highly sensitive PCF-SPR biosensor for hyperthermia temperature monitoring. <i>Journal of Optics (India)</i> , <b>2018</b> , 47, 288-294	1.3	6
1455	Spatially confined synthesis of vanadium nitride nanodots intercalated carbon nanosheets with ultrahigh volumetric capacitance and long life for flexible supercapacitors. <i>Nano Energy</i> , <b>2018</b> , 51, 128-136	17.1	64
1454	Multiple unidirectional forward scattering of hybrid metal-dielectric nanoantenna in the near-infrared region. <i>Optical Materials Express</i> , <b>2018</b> , 8, 3410	2.6	1
1453	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1266-1277	9.5	96
1452	2D Material-Based Nanofibrous Membrane for Photothermal Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1155-1163	9.5	22
1451	Excellent adhered thick diamond-like carbon coatings by optimizing hetero-interfaces with sequential highly energetic Cr and C ion treatment. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 155-162	5.7	22
1450	Surface functionalization of biomaterials by plasma and ion beam. <i>Surface and Coatings Technology</i> , <b>2018</b> , 336, 2-8	4.4	18
1449	Effects of copper nanoparticles in porous TiO coatings on bacterial resistance and cytocompatibility of osteoblasts and endothelial cells. <i>Materials Science and Engineering C</i> , <b>2018</b> , 82, 110-120	8.3	54
1448	Rapid Sterilization and Accelerated Wound Healing Using Zn <sup>2+</sup> and Graphene Oxide Modified g-C <sub>3</sub> N <sub>4</sub> under Dual Light Irradiation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800299	15.6	173
1447	In Silico Screening and Design of Coating Materials for PEMFC Bipolar Plates. <i>Coatings</i> , <b>2018</b> , 8, 386	2.9	1
1446	Tunable band offsets in the BP/PO van der Waals heterostructure: first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29931-29938	3.6	5
1445	Sequentially Triggered Delivery System of Black Phosphorus Quantum Dots with Surface Charge-Switching Ability for Precise Tumor Radiosensitization. <i>ACS Nano</i> , <b>2018</b> , 12, 12401-12415	16.7	70

1444	Degradable and Photocatalytic Antibacterial Au-TiO <sub>2</sub> /Sodium Alginate Nanocomposite Films for Active Food Packaging. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	27
1443	Improving of tribology properties of TiAl <sub>6</sub> V <sub>4</sub> with nanostructured Ti/TiN-multilayered coating deposited by high-vacuum magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	1
1442	A CRISPR-Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. <i>Nature Communications</i> , <b>2018</b> , 9, 5012	17.4	148
1441	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie</i> , <b>2018</b> , 131, 779	3.6	4
1440	Seamless lateral graphene p-n junctions formed by selective in situ doping for high-performance photodetectors. <i>Nature Communications</i> , <b>2018</b> , 9, 5168	17.4	48
1439	Nickel/Multi-walled Carbon Nanotube Nanocomposite Synthesized in Supercritical Fluid as Efficient Lubricant Additive for Mineral Oil. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	8
1438	Highly Fluorescent and Stable Black Phosphorus Quantum Dots in Water. <i>Small</i> , <b>2018</b> , 14, e1803132	11	39
1437	Highly Luminescent and Stable Si-Based CsPbBr <sub>3</sub> Quantum Dot Thin Films Prepared by Glow Discharge Plasma with Real-Time and In Situ Diagnosis. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805214	15.6	10
1436	Sn-C bonding riveted SnSe nanoplates vertically grown on nitrogen-doped carbon nanobelts for high-performance sodium-ion battery anodes. <i>Nano Energy</i> , <b>2018</b> , 54, 322-330	17.1	100
1435	Highly Stretchable Conductive Glue for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704858	15.6	90
1434	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803641	24	77
1433	Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. <i>Biomaterials Science</i> , <b>2018</b> , 6, 2110-2121	7.4	110
1432	Synthesis of lipid-black phosphorus quantum dot bilayer vesicles for near-infrared-controlled drug release. <i>Chemical Communications</i> , <b>2018</b> , 54, 6060-6063	5.8	37
1431	Flexible NbN/rGO Electrode for High-Performance Solid State Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 30-38	1.3	15
1430	Neuromorphic Computing with Memristor Crossbar. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700875	1.6	31
1429	The effect of copper pretreatment on graphene synthesis by ion implantation into Ni/Cu substrate. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 074001	1.8	
1428	An antibacterial platform based on capacitive carbon-doped TiO nanotubes after direct or alternating current charging. <i>Nature Communications</i> , <b>2018</b> , 9, 2055	17.4	99
1427	Ag/AgBr-loaded mesoporous silica for rapid sterilization and promotion of wound healing. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1735-1744	7.4	50

1426	Localized surface plasmon resonance properties of symmetry-broken Au@TiO <sub>2</sub> @Ag multilayered nanoshells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	1
1425	A promising orthopedic implant material with enhanced osteogenic and antibacterial activity: Al <sub>2</sub> O <sub>3</sub> -coated aluminum alloy. <i>Applied Surface Science</i> , <b>2018</b> , 457, 1025-1034	6.7	21
1424	Ultrafast hetero-assembly of monolithic interwoven V <sub>2</sub> O <sub>5</sub> nanobelts/carbon nanotubes architectures for high-energy alkali-ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 395, 295-304	8.9	30
1423	Core-shell CoMoO <sub>4</sub> @Ni(OH) <sub>2</sub> on ordered macro-porous electrode plate for high-performance supercapacitor. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 538-547	6.7	20
1422	Hard and adherent a-C:H gradient coatings by stress engineering. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 765, 921-926	5.7	11
1421	Vertically distributed VO <sub>2</sub> nanoplatelets on hollow spheres with enhanced thermochromic properties. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7896-7904	7.1	8
1420	Near-infrared light-triggered drug delivery system based on black phosphorus for in vivo bone regeneration. <i>Biomaterials</i> , <b>2018</b> , 179, 164-174	15.6	72
1419	Recent advances in anti-infection surfaces fabricated on biomedical implants by plasma-based technology. <i>Surface and Coatings Technology</i> , <b>2017</b> , 312, 2-6	4.4	12
1418	Bactericidal Effects of Plasma Induced Reactive Species in Dielectric Barrier Gas/Liquid Discharge. <i>Plasma Chemistry and Plasma Processing</i> , <b>2017</b> , 37, 415-431	3.6	46
1417	Cold atmospheric-pressure air plasma treatment of C6 glioma cells: effects of reactive oxygen species in the medium produced by the plasma on cell death. <i>Plasma Science and Technology</i> , <b>2017</b> , 19, 025503	1.5	6
1416	Zinc Electrodeposition on Polycrystalline Copper: Electrochemical Study of Early-Stage Growth Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3938-3946	3.8	11
1415	Tin repellence on wave-soldering stainless steel holders coated with Ti/TiC/DLC. <i>Surface and Coatings Technology</i> , <b>2017</b> , 320, 614-618	4.4	4
1414	TiL -Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. <i>Small</i> , <b>2017</b> , 13, 1602896	11	198
1413	Multiband Hot Photoluminescence from Nanocavity-Embedded Silicon Nanowire Arrays with Tunable Wavelength. <i>Nano Letters</i> , <b>2017</b> , 17, 1552-1558	11.5	12
1412	Hierarchical Porous Carbon Materials Derived from Self-Template Bamboo Leaves for Lithium/Sulfur Batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 229, 352-360	6.7	44
1411	Facile design of ultra-thin anodic aluminum oxide membranes for the fabrication of plasmonic nanoarrays. <i>Nanotechnology</i> , <b>2017</b> , 28, 105301	3.4	47
1410	A sensitive non-enzymatic immunosensor composed of silver nanoflowers for squamous cell carcinoma antigen. <i>RSC Advances</i> , <b>2017</b> , 7, 2242-2248	3.7	3
1409	Fabrication of irregular-layer-free and diameter-tunable NiTiO <sub>4</sub> nanopores by anodization of NiTi alloy. <i>Electrochemistry Communications</i> , <b>2017</b> , 76, 10-14	5.1	21



1408	Effects of Laser Shock Processing on Fatigue Crack Growth in Ti-17 Titanium Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 813-821	1.6	9
1407	Osteogenesis Catalyzed by Titanium-Supported Silver Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 5149-5157	9.5	45
1406	Tensile loading induced phase transition and rippling in single-layer MoS <sub>2</sub> . <i>Applied Surface Science</i> , <b>2017</b> , 404, 180-187	6.7	15
1405	Ge@CNFs Anchored on 3D Graphene Foam for Binder-Free and High-Efficiency Anodes in Li <sup>+</sup> Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1002-1006	4.3	5
1404	An experimental study of magnetorheological fluids on electrical conductivity property. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 8130-8135	2.1	1
1403	Different-sized black phosphorus nanosheets with good cytocompatibility and high photothermal performance. <i>RSC Advances</i> , <b>2017</b> , 7, 14618-14624	3.7	47
1402	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. <i>Nano Energy</i> , <b>2017</b> , 34, 515-523	17.1	49
1401	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , <b>2017</b> , 124, 25-34	15.6	152
1400	Morphology-controlled synthesis and electron field emission properties of ZnSe nanowalls. <i>RSC Advances</i> , <b>2017</b> , 7, 10631-10637	3.7	8
1399	Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7472-7480	9.5	54
1398	Vertically-oriented few-layer graphene supported by silicon microchannel plates as a counter electrode in dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2017</b> , 45, 74-80	3.5	9
1397	In vitro antimicrobial effects and mechanism of atmospheric-pressure He/O <sub>2</sub> plasma jet on <i>Staphylococcus aureus</i> biofilm. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 105201	3	32
1396	Imaging and motion of cathode group spots during pulse-enhanced vacuum arc evaporation. <i>Vacuum</i> , <b>2017</b> , 139, 37-43	3.7	8
1395	Functionalized Polymeric Membrane with Enhanced Mechanical and Biological Properties to Control the Degradation of Magnesium Alloy. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601269	10.1	32
1394	In situ segregation of cobalt nanoparticles on VN nanosheets via nitriding of Co <sub>2</sub> V <sub>2</sub> O <sub>7</sub> nanosheets as efficient oxygen evolution reaction electrocatalysts. <i>Nano Energy</i> , <b>2017</b> , 34, 1-7	17.1	81
1393	In situ fabrication of Ni nanoparticles on N-doped TiO nanowire arrays by nitridation of NiTiO for highly sensitive and enzyme-free glucose sensing. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 1779-1786	7.3	15
1392	Effect of Ag and Ti electrodes on capacitance tunability of oxygen-deficient SrTiO <sub>3</sub> based MIM varactors prepared by plasma sputtering. <i>Materials Research Express</i> , <b>2017</b> , 4, 046401	1.7	1
1391	Effects of high concentration of Benzotriazole on corrosion behavior of nanostructured titania-alumina composite coating deposited on Al 2024 by sol-gel method. <i>Surface and Coatings Technology</i> , <b>2017</b> , 321, 36-44	4.4	23

1390	Cell-borne 2D nanomaterials for efficient cancer targeting and photothermal therapy. <i>Biomaterials</i> , <b>2017</b> , 133, 37-48	15.6	54
1389	Mechanism of MxOy nanoparticles/CNTs for catalytic carbonization of polyethylene and application to flame retardancy. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45233	2.9	10
1388	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , <b>2017</b> , 11, 4848-4858	16.7	124
1387	Long-term antibacterial characteristics and cytocompatibility of titania nanotubes loaded with Au nanoparticles without photocatalytic effects. <i>Applied Surface Science</i> , <b>2017</b> , 414, 230-237	6.7	19
1386	Fabrication of Ni-Ti-O nanoporous film on NiTi alloy in ethylene glycol containing NaCl. <i>Surface and Coatings Technology</i> , <b>2017</b> , 321, 136-145	4.4	12
1385	Ultrahigh quantum efficiency photodetector and ultrafast reversible surface wettability transition of square In <sub>2</sub> O <sub>3</sub> nanowires. <i>Nano Research</i> , <b>2017</b> , 10, 2772-2781	10	19
1384	Effects of one-step hydrothermal treatment on the surface morphology and corrosion resistance of ZK60 magnesium alloy. <i>Surface and Coatings Technology</i> , <b>2017</b> , 309, 490-496	4.4	22
1383	Facet-engineered CeO <sub>2</sub> /graphene composites for enhanced NO <sub>2</sub> gas-sensing. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6973-6981	7.1	20
1382	Localized surface plasmon resonance properties of Ag nanorod arrays on graphene-coated Au substrate. <i>Optics Communications</i> , <b>2017</b> , 402, 216-220	2	6
1381	Analysis of Local Surface Plasmon Resonance in Multilayered Au/Ag/Graphene Nanoshells. <i>Nano</i> , <b>2017</b> , 12, 1750062	1.1	3
1380	Nickel plasma modification of graphene for high-performance non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 251, 842-850	8.5	22
1379	Relationship between Ni release and cytocompatibility of Ni-Ti-O nanotubes prepared on biomedical NiTi alloy. <i>Corrosion Science</i> , <b>2017</b> , 123, 209-216	6.8	27
1378	Enhancement of high-temperature strength of Ni-based films by addition of nano-multilayers and incorporation of W. <i>Acta Materialia</i> , <b>2017</b> , 133, 55-67	8.4	11
1377	Germanium-Assisted Direct Growth of Graphene on Arbitrary Dielectric Substrates for Heating Devices. <i>Small</i> , <b>2017</b> , 13, 1700929	11	26
1376	Dual carbon layer hybridized mesoporous tin hollow spheres for fast-rechargeable and highly-stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14422-14429	13	34
1375	The controlled drug release by pH-sensitive molecularly imprinted nanospheres for enhanced antibacterial activity. <i>Materials Science and Engineering C</i> , <b>2017</b> , 77, 84-91	8.3	33
1374	Antibacterial, osteogenic, and angiogenic activities of SrTiO nanotubes embedded with AgO nanoparticles. <i>Materials Science and Engineering C</i> , <b>2017</b> , 75, 1049-1058	8.3	30
1373	Excellent corrosion resistance of P and Fe modified micro-arc oxidation coating on Al alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 710, 452-459	5.7	38

1372	Targeting ETS1 with RNAi-based supramolecular nanoassemblies for multidrug-resistant breast cancer therapy. <i>Journal of Controlled Release</i> , <b>2017</b> , 253, 110-121	11.7	36
1371	Morphological and electrical properties of SrTiO <sub>3</sub> /TiO <sub>2</sub> /SrTiO <sub>3</sub> sandwich structures prepared by plasma sputtering. <i>Chinese Physics B</i> , <b>2017</b> , 26, 010702	1.2	1
1370	Lanthanide-integrated supramolecular polymeric nanoassembly with multiple regulation characteristics for multidrug-resistant cancer therapy. <i>Biomaterials</i> , <b>2017</b> , 129, 83-97	15.6	31
1369	Three-dimensional graphene nanosheets supported by NiO/Si-MCP as electrode materials for high-performance supercapacitors. <i>Ionics</i> , <b>2017</b> , 23, 2185-2191	2.7	
1368	Fully degradable PLA-based composite reinforced with 2D-braided Mg wires for orthopedic implants. <i>Composites Science and Technology</i> , <b>2017</b> , 142, 180-188	8.6	27
1367	Three-dimensional tetsubo-like Co(OH) <sub>2</sub> nanorods on a macroporous electrically conductive network as an efficient electroactive framework for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2629-2639	13	28
1366	Biofunctionalization of carbon nanotubes/chitosan hybrids on Ti implants by atom layer deposited ZnO nanostructures. <i>Applied Surface Science</i> , <b>2017</b> , 400, 14-23	6.7	79
1365	Microstructure and mechanical properties of (AlTi) <sub>x</sub> N <sub>1-x</sub> films by magnetic-field-enhanced high power impulse magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 021402	2.9	6
1364	Freestanding hollow double-shell Se@CN <sub>x</sub> nanobelts as large-capacity and high-rate cathodes for Li-Se batteries. <i>Nano Energy</i> , <b>2017</b> , 32, 1-9	17.1	86
1363	Enhancement of Ferromagnetism in Nonmagnetic Metal Oxide Nanoparticles by Facet Engineering. <i>Small</i> , <b>2017</b> , 13, 1602951	11	7
1362	Protein-assisted assembly of mesoporous nanocrystals and carbon nanotubes for self-supporting high-performance sodium electrodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2749-2758	13	21
1361	A Highly Sensitive Dual-Core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Biosensor with Silver-Graphene Layer. <i>Plasmonics</i> , <b>2017</b> , 12, 1847-1853	2.4	49
1360	Porous nanopeapod Pd catalyst with excellent stability and efficiency. <i>Chemical Communications</i> , <b>2017</b> , 53, 740-742	5.8	8
1359	Au/Graphene Oxide Nanocomposite Synthesized in Supercritical CO Fluid as Energy Efficient Lubricant Additive. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39549-39559	9.5	54
1358	Identification of Lattice Oxygen in Few-Layer Black Phosphorous Exfoliated in Ultrahigh Vacuum and Largely Improved Ambipolar Field-Effect Mobilities by Hydrogenation and Phosphorization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39804-39811	9.5	9
1357	Facile synthesis of porous iron oxide/graphene hybrid nanocomposites and potential application in electrochemical energy storage. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 13553-13559	3.6	20
1356	Three-dimensional CoMoO <sub>4</sub> nanorods/nanographene composites on a Ni coated macroporous electrically conductive network with excellent electrochemical performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2017</b> , 226, 177-187	3.1	6
1355	Monolithic Hierarchical Carbon Assemblies Embedded with Mesoporous NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Nanocrystals for Flexible High-Performance Sodium Anodes. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 328-336	6.7	16

1354	Reduction in Chemical Oxygen Demand of TNT Red Water Using Layered Double Hydroxide Prepared from Red Mud and Brucite. <i>Environmental Engineering Science</i> , <b>2017</b> , 34, 721-730	2	2
1353	Controlled Patterning of Plasmonic Dimers by Using an Ultrathin Nanoporous Alumina Membrane as a Shadow Mask. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36199-36205	9.5	39
1352	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703811	24	353
1351	Balancing Bacteria-Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , <b>2017</b> , 11, 11250-11263	16.7	178
1350	Improved interfacial adhesion between TiAlN/DLC multi-layered coatings by controlling the morphology via bias. <i>Surface and Coatings Technology</i> , <b>2017</b> , 331, 15-20	4.4	8
1349	Tannic Acid/Fe/Ag Nanofilm Exhibiting Superior Photodynamic and Physical Antibacterial Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39657-39671	9.5	55
1348	Preparation of SnO <sub>2</sub> Nanoparticles Doped With Palladium and Graphene and Application for Ethanol Detection. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 6240-6245	4	3
1347	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. <i>ACS Nano</i> , <b>2017</b> , 11, 9010-9021	16.7	416
1346	Self-assembled bundled TiO nanowire arrays encapsulated with indium tin oxide for broadband absorption in plasmonic photocatalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 27059-27064	3.6	3
1345	Freestanding carbon encapsulated mesoporous vanadium nitride nanowires enable highly stable sulfur cathodes for lithium-sulfur batteries. <i>Nano Energy</i> , <b>2017</b> , 40, 655-662	17.1	128
1344	Self-assembly and enhanced visible-light-driven photocatalytic activity of reduced graphene oxide-Bi <sub>2</sub> WO <sub>6</sub> photocatalysts. <i>Nanotechnology Reviews</i> , <b>2017</b> , 6, 505-516	6.3	10
1343	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 120, 1-33	30.9	102
1342	Hierarchical CoMoO <sub>4</sub> @Co <sub>3</sub> O <sub>4</sub> nanocomposites on an ordered macro-porous electrode plate as a multi-dimensional electrode in high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17312-17324	13	65
1341	Nano mechanical and wear properties of multi-layer Ti/TiN coatings deposited on Al 7075 by high-vacuum magnetron sputtering. <i>Thin Solid Films</i> , <b>2017</b> , 638, 96-104	2.2	25
1340	Corrosion behavior of reactive sputtered Ti/TiN nanostructured coating and effects of intermediate titanium layer on self-healing properties. <i>Surface and Coatings Technology</i> , <b>2017</b> , 326, 156-164	4.4	21
1339	Intertwined Nitrogen-Doped Carbon Nanotubes for High-Rate and Long-Life Sodium-Ion Battery Anodes. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2542-2546	4.3	20
1338	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26417-26428	9.5	173
1337	Freestanding Nanoengineered [001] Preferentially Oriented TiO <sub>2</sub> Nanosheets/Graphene Planarly Aligned Nanohybrids with Enhanced Li-Storage Properties. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2819-2825	4.3	8

1336	Gas sensing properties of NiO/SnO <sub>2</sub> heterojunction thin film. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 252, 1163-1168	8.5	43
1335	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7131-7139	9.6	125
1334	Influence of dynamic compressive loading on the in vitro degradation behavior of pure PLA and Mg/PLA composite. <i>Acta Biomaterialia</i> , <b>2017</b> , 64, 269-278	10.8	14
1333	Highly efficient field emission from ZnO nanorods and nanographene hybrids on a macroporous electric conductive network. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9296-9305	7.1	10
1332	Linker-free covalent immobilization of heparin, SDF-1 $\beta$ and CD47 on PTFE surface for antithrombogenicity, endothelialization and anti-inflammation. <i>Biomaterials</i> , <b>2017</b> , 140, 201-211	15.6	55
1331	Carbon nanodots-based nanocomposites with enhanced photocatalytic performance and photothermal effects. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 013904	3.4	9
1330	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	44
1329	Porous Materials Composed of Flue Gas Desulfurization Gypsum and Textile Fiber Wastes. <i>Waste and Biomass Valorization</i> , <b>2017</b> , 8, 203-207	3.2	12
1328	In vitro degradation kinetics of pure PLA and Mg/PLA composite: Effects of immersion temperature and compression stress. <i>Acta Biomaterialia</i> , <b>2017</b> , 48, 468-478	10.8	35
1327	Preparation of layered double hydroxides using boron mud and red mud industrial wastes and adsorption mechanism to phosphate. <i>Water and Environment Journal</i> , <b>2017</b> , 31, 145-157	1.7	24
1326	Free-standing electrodes composed of carbon-coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanosheets and reduced graphene oxide for advanced sodium ion batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 337, 180-188	8.9	48
1325	Corrosion resistance and cytocompatibility of tantalum-surface-functionalized biomedical ZK60 Mg alloy. <i>Corrosion Science</i> , <b>2017</b> , 114, 45-56	6.8	75
1324	Wrinkled Single-Crystalline Germanium Nanomembranes for Stretchable Photodetectors. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 1985-1990	2.9	16
1323	Numerical analysis of a photonic crystal fiber based on a surface plasmon resonance sensor with an annular analyte channel. <i>Optics Communications</i> , <b>2017</b> , 382, 162-166	2	57
1322	EFFECT OF INHIBITOR AGENTS ADDITION ON CORROSION RESISTANCE PERFORMANCE OF TITANIA SOL-GEL COATINGS APPLIED ON 304 STAINLESS STEEL. <i>Surface Review and Letters</i> , <b>2017</b> , 24, 1750055	1.1	5
1321	Protection against lead-free solder in wave-soldering by Ti/TiC coatings prepared by filtered cathodic arc deposition. <i>Surface and Coatings Technology</i> , <b>2017</b> , 312, 7-12	4.4	5
1320	Investigation of nano-structured Zirconium oxide film on Ti6Al4V substrate to improve tribological properties prepared by PIII&D. <i>Applied Surface Science</i> , <b>2017</b> , 394, 586-597	6.7	17
1319	Effects of diamond-like carbon film on the corrosion behavior of NdFeB permanent magnet. <i>Surface and Coatings Technology</i> , <b>2017</b> , 312, 66-74	4.4	11



1318	Decorated ultrathin bismuth selenide nanosheets as targeted theranostic agents for in vivo imaging guided cancer radiation therapy. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e439-e439	10.3	51
1317	Manganese molybdate nanoflakes on silicon microchannel plates as novel nano energetic material. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 171229	3.3	3
1316	Effect of Isothermal Temperature on Growth Behavior of Nanostructured Bainite in Laser Cladded Coatings. <i>Materials</i> , <b>2017</b> , 10,	3.5	3
1315	Structural stability and magnetic-exchange coupling in Mn-doped monolayer/bilayer MoS. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 20, 553-561	3.6	24
1314	Corrosion resistance of dicalcium phosphate dihydrate/poly(lactic-co-glycolic acid) hybrid coating on AZ31 magnesium alloy. <i>Corrosion Science</i> , <b>2016</b> , 102, 209-221	6.8	71
1313	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , <b>2016</b> , 74, 144-54	15.6	209
1312	Utilization of recycled chemical residues from sodium hydrosulfite production in solid lubricant for drilling fluids. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 1804-1813		4
1311	Tuning of electronic states and magnetic polarization in monolayered MoS <sub>2</sub> by codoping with transition metals and nonmetals. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 9514-9525	4.3	19
1310	Mesoporous TiO <sub>2</sub> Nanocrystals/Graphene as an Efficient Sulfur Host Material for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23784-92	9.5	78
1309	Flexible Nb <sub>2</sub> O <sub>5</sub> nanowires/graphene film electrode for high-performance hybrid Li-ion supercapacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 328, 599-606	8.9	86
1308	Three-dimensional flexible carbon electrode for symmetrical supercapacitors. <i>Materials Letters</i> , <b>2016</b> , 185, 193-196	3.3	10
1307	High-energy lithium-ion hybrid supercapacitors composed of hierarchical urchin-like WO/C anodes and MOF-derived polyhedral hollow carbon cathodes. <i>Nanoscale</i> , <b>2016</b> , 8, 16761-16768	7.7	66
1306	Extracellular Electron Transfer from Aerobic Bacteria to Au-Loaded TiO <sub>2</sub> Semiconductor without Light: A New Bacteria-Killing Mechanism Other than Localized Surface Plasmon Resonance or Microbial Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24509-16	9.5	45
1305	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8937-8944	24	100
1304	Anodic growth of ultra-long Ni-Ti-O nanopores. <i>Electrochemistry Communications</i> , <b>2016</b> , 71, 28-32	5.1	20
1303	Hierarchical porous nanocomposite architectures from multi-wall carbon nanotube threaded mesoporous NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanocrystals for high-performance sodium electrodes. <i>Journal of Power Sources</i> , <b>2016</b> , 327, 580-590	8.9	42
1302	Effects of annealing ambient on oxygen vacancies and phase transition temperature of VO <sub>2</sub> thin films. <i>RSC Advances</i> , <b>2016</b> , 6, 79383-79388	3.7	40
1301	Effects of Atmospheric-Pressure Nonthermal Nitrogen and Air Plasma on Bacteria Inactivation. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2699-2707	1.3	15



1300	Fabrication and enhanced supercapacitance of hollow nanostructured MoS <sub>2</sub> prepared by a CATB-assisted hydrothermal process. <i>Materials Letters</i> , <b>2016</b> , 184, 96-99	3.3	10
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1298	General fabrication of mesoporous Nb <sub>2</sub> O <sub>5</sub> nanobelts for lithium ion battery anodes. <i>RSC Advances</i> , <b>2016</b> , 6, 90489-90493	3.7	28
1297	Nitrogen-doped multilayered nanographene derived from Ni <sub>3</sub> C with efficient electron field emission. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9251-9260	7.1	7
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1295	Study on the strain in a silicon microchannel plate by micro-Raman analysis. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 055010	1.8	
1294	Optical Identification of Topological Defect Types in Monolayer Arsenene by First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24917-24924	3.8	19
1293	A sandwich-type electrochemical immunosensor based on the biotin- streptavidin-biotin structure for detection of human immunoglobulin G. <i>Scientific Reports</i> , <b>2016</b> , 6, 22694	4.9	15
1292	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , <b>2016</b> , 7, 12967	17.4	659
1291	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. <i>Scientific Reports</i> , <b>2016</b> , 6, 27374	4.9	103
1290	Supercritical Fluid Synthesis and Tribological Applications of Silver Nanoparticle-decorated Graphene in Engine Oil Nanofluid. <i>Scientific Reports</i> , <b>2016</b> , 6, 31246	4.9	70
1289	Large-Scale Synthesis and Mechanism of $\alpha$ -SiC Nanoparticles from Rice Husks by Low-Temperature Magnesiothermic Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 6600-6607	8.3	43
1288	Origin of Initial Current Peak in High Power Impulse Magnetron Sputtering and Verification by Non-Sputtering Discharge. <i>Chinese Physics Letters</i> , <b>2016</b> , 33, 075201	1.8	
1287	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , <b>2016</b> , 28, 2511-7	24	134
1286	Electrochemiluminescent Spin-Polarized Modulation by Magnetic Ions and Surface Plasmon Coupling. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2057-2061	3.6	
1285	Drawing-fabrication of multifarious nanoplasmonic platform on PLLA paper for optimized SERS performance. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 687-691	2.3	6
1284	MoS <sub>2</sub> -Quantum-Dot-Interspersed Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Nanosheets with Enhanced Performance for Li- and Na-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3349-3358	15.6	115
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1281	Theoretical Assessment of Localized Surface Plasmon Resonance Properties of Au-Interlayer-Ag Multilayered Nanoshells. <i>Plasmonics</i> , <b>2016</b> , 11, 1589-1595	2.4	9
1280	Investigation of dendritic growth and liquation cracking in laser melting deposited Inconel 718 at different laser input angles. <i>Materials and Design</i> , <b>2016</b> , 105, 133-141	8.1	34
1279	Fabrication of ordered porous silicon nanowires electrode modified with palladium-nickel nanoparticles and electrochemical characteristics in direct alkaline fuel cell of carbohydrates. <i>Ionics</i> , <b>2016</b> , 22, 1891-1898	2.7	5
1278	Reutilization of industrial ultrafine carbon ash (PM2.5) as rubber reinforcement filler. <i>Environmental Progress and Sustainable Energy</i> , <b>2016</b> , 35, 1132-1138	2.5	2
1277	Low-Temperature Synthesis of Mesoporous SiC Hollow Spheres by Magnesiothermic Reduction. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1859-1861	3.8	13
1276	Microstructure evolution in the fusion zone of laser-welded Mg-Cd-Zr alloy during solution and aging treatment. <i>Materials Characterization</i> , <b>2016</b> , 118, 486-493	3.9	9
1275	Antibacterial Activity of Silver Doped Titanate Nanowires on Ti Implants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16584-94	9.5	80
1274	Hydrogenated V2O5 Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 784-791	15.6	110
1273	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5087-5091	3.6	92
1272	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5003-7	16.4	406
1271	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. <i>Biomaterials</i> , <b>2016</b> , 83, 115-26	15.6	127
1270	Synthesis, crystal structure and photoluminescence properties of Eu <sup>2+</sup> -activated RbCaGd(PO <sub>4</sub> ) <sub>2</sub> phosphors. <i>RSC Advances</i> , <b>2016</b> , 6, 11211-11217	3.7	4
1269	Effects of cerium ion implantation on the corrosion behavior of magnesium in different biological media. <i>Surface and Coatings Technology</i> , <b>2016</b> , 306, 6-10	4.4	20
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1267	Enhanced corrosion resistance and biocompatibility of PMMA-coated ZK60 magnesium alloy. <i>Materials Letters</i> , <b>2016</b> , 173, 178-181	3.3	15
1266	An electrochemical immunosensor comprising thionin/silver nanoparticles decorated KIT-6 for ultrasensitive detection of squamous cell carcinoma antigen. <i>RSC Advances</i> , <b>2016</b> , 6, 6932-6938	3.7	10
1265	Simultaneous arsenate and alkali removal from alkaline wastewater by in-situ formation of ZnAl layered double hydroxide. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 227, 137-143	5.3	8

1264	Au Nanoparticles Decorated TiO <sub>2</sub> Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4430-8	10.3	97
1263	Large and porous carbon sheets derived from water hyacinth for high-performance supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 29996-30003	3.7	35
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1261	Development of novel implants with self-antibacterial performance through in-situ growth of 1D ZnO nanowire. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 141, 623-633	6	22
1260	Unusual anti-bacterial behavior and corrosion resistance of magnesium alloy coated with diamond-like carbon. <i>RSC Advances</i> , <b>2016</b> , 6, 14756-14762	3.7	8
1259	Lactose-Functionalized Gold Nanorods for Sensitive and Rapid Serological Diagnosis of Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5813-20	9.5	26
1258	Preparation of multi-layer graphene on nickel-coated silicon microchannel plates by a hydrothermal carbonization procedure and its improved field emission properties. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2079-2087	7.1	19
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1256	Effects of pulse voltage and deposition time on the adhesion strength of graded metal/carbon films deposited on bendable stainless steel foils by hybrid cathodic arc glow discharge plasma assisted chemical vapor deposition. <i>Applied Surface Science</i> , <b>2016</b> , 366, 535-544	6.7	3
1255	Ink Dispersion on Qianlong Xuan Paper with Improved Ink Expression. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 182-188	9.1	7
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1253	Self-passivating carbon film as bipolar plate protective coating in polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5783-5792	6.7	20
1252	Preparation of ultra-low dielectric constant silica/polyimide nanofiber membranes by electrospinning. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 84, 292-298	8.4	66
1251	Hybrid Co(OH) <sub>2</sub> /nano-graphene/Ni nano-composites on silicon microchannel plates for miniature supercapacitors. <i>Materials Letters</i> , <b>2016</b> , 172, 40-43	3.3	15
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1248	Smart polymeric particle encapsulated gadolinium oxide and europium: theranostic probes for magnetic resonance/optical imaging and antitumor drug delivery. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 1100-1107	7.3	14
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1245	A highly temperature-sensitive photonic crystal fiber based on surface plasmon resonance. <i>Optics Communications</i> , <b>2016</b> , 359, 378-382	2	47
1244	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , <b>2016</b> , 78, 27-39	15.6	167
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1242	Cylindric high power impulse magnetron sputtering source and its discharge characteristics. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2016</b> , 65, 185202	0.6	4
1241	Plasma Surface Modification of Magnesium-Based and Related Materials <b>2016</b> , 329-330		
1240	Plasma Surface Modification of Magnesium-Based and Related Materials <b>2016</b> , 329-330		
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1237	In situ plasma fabrication of ceramic-like structure on polymeric implant with enhanced surface hardness, cytocompatibility and antibacterial capability. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1102-12	5.4	3
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1235	Energy dissipation in mechanical loading of nano-grained graphene sheets. <i>RSC Advances</i> , <b>2016</b> , 6, 60856-60861	5.7	1
1234	Modification of Biomaterials and Biomedical Devices by Plasma Immersion Ion Implantation & Deposition and Related Techniques <b>2016</b> ,		1
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1230	Plasma and ion-beam modification of metallic biomaterials for improved anti-bacterial properties. <i>Surface and Coatings Technology</i> , <b>2016</b> , 306, 140-146	4.4	16
1229	Synergistic WO <sub>3</sub> /H <sub>2</sub> O Nanoplates/WS <sub>2</sub> Hybrid Catalysts for High-Efficiency Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13966-72	9.5	88

1228	Electrochemical analysis of interface adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , <b>2016</b> , 194, 253-262	6.7	3
1227	Hafnium-implanted WE43 magnesium alloy for enhanced corrosion protection and biocompatibility. <i>Surface and Coatings Technology</i> , <b>2016</b> , 306, 11-15	4.4	16
1226	Substitutional doping of Ag into epitaxial graphene on 6H-SiC substrates during thermal decomposition. <i>Carbon</i> , <b>2016</b> , 104, 233-240	10.4	16
1225	Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9662-73	9.5	56
1224	In situ synthesis of Ni(OH) <sub>2</sub> /TiO <sub>2</sub> composite film on NiTi alloy for non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 232, 150-157	8.5	65
1223	Crumpled N-doped carbon nanotubes encapsulated with peapod-like Ge nanoparticles for high-rate and long-life Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7585-7590	13	39
1222	Size-dependent elastic modulus of single-layer MoS <sub>2</sub> nano-sheets. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6850-6859	4.3	5
1221	Antibacterial Surface Design of Titanium-Based Biomaterials for Enhanced Bacteria-Killing and Cell-Assisting Functions Against Periprosthetic Joint Infection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11162-78	9.5	83
1220	Synthesis of mesoporous niobium nitride nanobelt arrays and their capacitive properties. <i>Applied Surface Science</i> , <b>2016</b> , 383, 57-63	6.7	45
1219	Corrosion resistance of Ti-Si-N coatings in blood and cytocompatibility with vascular endothelial cells. <i>Vacuum</i> , <b>2016</b> , 128, 45-55	3.7	6
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1217	Surface functionalization of biomaterials by radical polymerization. <i>Progress in Materials Science</i> , <b>2016</b> , 83, 191-235	42.2	99
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1215	Polyimide composites composed of covalently bonded BaTiO <sub>3</sub> @GO hybrids with high dielectric constant and low dielectric loss. <i>RSC Advances</i> , <b>2016</b> , 6, 86817-86823	3.7	17
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1213	Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. <i>Acta Biomaterialia</i> , <b>2016</b> , 45, 2-30	10.8	203
1212	Electrochemical characteristics of nano-graphene on a macroporous electrically conductive network prepared by hydrothermal carbonization. <i>Electrochimica Acta</i> , <b>2016</b> , 215, 515-524	6.7	5
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1209	Communication between nitric oxide synthase and positively-charged surface and bone formation promotion. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 148, 354-362	6	10
1208	Tribological and Corrosion Properties of Nickel/TiC Bilayered Coatings Produced by Electroless Deposition and PACVD. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 4796-4804	1.6	2
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1203	Lithiation Kinetics in High-Performance Porous Vanadium Nitride Nanosheet Anode. <i>Electrochimica Acta</i> , <b>2016</b> , 214, 201-207	6.7	25
1202	Anomalous but massive removal of two organic dye pollutants simultaneously. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 54-60	12.8	21
1201	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500494	4.6	111
1200	Folate-bovine serum albumin functionalized polymeric micelles loaded with superparamagnetic iron oxide nanoparticles for tumor targeting and magnetic resonance imaging. <i>Acta Biomaterialia</i> , <b>2015</b> , 15, 117-26	10.8	67
1199	Bio-tribological properties and cytocompatibility of TiSiN coatings. <i>Vacuum</i> , <b>2015</b> , 115, 50-57	3.7	9
1198	Highly ordered Ni-Ti-O nanotubes for non-enzymatic glucose detection. <i>Materials Science and Engineering C</i> , <b>2015</b> , 51, 37-42	8.3	29
1197	Supercapacitor Electrodes Based on Hierarchical Mesoporous MnOx/Nitrided TiO2 Nanorod Arrays on Carbon Fiber Paper. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1400446	4.6	21
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1195	Quantum confinement effects across two-dimensional planes in MoS2 quantum dots. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 233113	3.4	136
1194	Balancing the Osteogenic and Antibacterial Properties of Titanium by Codoping of Mg and Ag: An in Vitro and in Vivo Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17826-36	9.5	58
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1186	Effects of plasma-generated nitrogen functionalities on the upregulation of osteogenesis of bone marrow-derived mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 1856-1863	7.3	6
1185	Achieving significantly enhanced visible-light photocatalytic efficiency using a polyelectrolyte: the composites of exfoliated titania nanosheets, graphene, and poly(diallyl-dimethyl-ammonium chloride). <i>Nanoscale</i> , <b>2015</b> , 7, 14002-9	7.7	22
1184	Highly-crystalline ultrathin gadolinium doped and carbon-coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanosheets for enhanced lithium storage. <i>Journal of Power Sources</i> , <b>2015</b> , 295, 305-313	8.9	61
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1089	Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. <i>Corrosion Science</i> , <b>2014</b> , 82, 7-26	6.8	80
1088	Photonic quantum well composed of photonic crystal and quasicrystal. <i>Optics Communications</i> , <b>2014</b> , 313, 369-374	2	3
1087	Novel Method for the Fabrication of Flexible Film with Oriented Arrays of Graphene in Poly(vinylidene fluoride-co-hexafluoropropylene) with Low Dielectric Loss. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 10567-10573	3.8	78
1086	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , <b>2014</b> , 35, 1954-66	15.6	226
1085	Plasma modified Mg-Ni-Zn alloy with enhanced surface corrosion resistance. <i>Corrosion Science</i> , <b>2014</b> , 78, 121-129	6.8	65



1084	Self-assembled magnetic fluorescent polymeric micelles for magnetic resonance and optical imaging. <i>Biomaterials</i> , <b>2014</b> , 35, 344-55	15.6	66
1083	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 128-34	11.8	52
1082	Dopant-Induced Surface Magnetism in $\beta$ -SiC Controlled by Dopant Depth. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25429-25433	3.8	7
1081	Observation of inactivation of <i>Bacillus subtilis</i> spores under exposures of oxygen added argon atmospheric pressure plasma jet. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 110310	1.4	17
1080	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. <i>CrystEngComm</i> , <b>2014</b> , 16, 6141-6148	3.3	19
1079	Hydrothermal synthesis of perovskite-type $\text{MTiO}_3$ (M = Zn, Co, Ni)/ $\text{TiO}_2$ nanotube arrays from an amorphous $\text{TiO}_2$ template. <i>CrystEngComm</i> , <b>2014</b> , 16, 10280-10285	3.3	23
1078	Band gap engineering design for construction of energy-levels well-matched semiconductor heterojunction with enhanced visible-light-driven photocatalytic activity. <i>RSC Advances</i> , <b>2014</b> , 4, 41219-41227	3.7	33
1077	Surface-dependent self-assembly of conducting polypyrrole nanotube arrays in template-free electrochemical polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10946-51	9.5	22
1076	Facile fabrication of a robust and corrosion resistant superhydrophobic aluminum alloy surface by a novel method. <i>RSC Advances</i> , <b>2014</b> , 4, 55556-55564	3.7	69
1075	Asymmetrical Supercapacitor Composed of Thin $\text{Co}(\text{OH})_2$ Nanoflakes on Three-Dimensional Ni/Si Microchannel Plates with Superior Electrochemical Performance. <i>Electrochimica Acta</i> , <b>2014</b> , 149, 18-27	6.7	25
1074	Atmospheric pressure plasma jet utilizing Ar and $\text{Ar}/\text{H}_2/\text{O}$ mixtures and its applications to bacteria inactivation. <i>Chinese Physics B</i> , <b>2014</b> , 23, 075204	1.2	25
1073	Asymmetric carbon nanotube- $\text{MnO}_2$ two-ply yarn supercapacitors for wearable electronics. <i>Nanotechnology</i> , <b>2014</b> , 25, 135401	3.4	74
1072	SiC Nanotubes. <i>Engineering Materials and Processes</i> , <b>2014</b> , 271-294		
1071	Fabrication, modification, and biomedical applications of anodized $\text{TiO}_2$ nanotube arrays. <i>RSC Advances</i> , <b>2014</b> , 4, 17300-17324	3.7	109
1070	Polymeric nanoarchitectures on Ti-based implants for antibacterial applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 17323-45	9.5	71
1069	High temperature oxidation of $\text{CrN}$ coatings prepared by high power pulsed magnetron sputtering [Plasma immersion ion implantation & deposition. <i>Vacuum</i> , <b>2014</b> , 108, 66-70	3.7	7
1068	Porous SiC. <i>Engineering Materials and Processes</i> , <b>2014</b> , 115-130		
1067	Biological Applications. <i>Engineering Materials and Processes</i> , <b>2014</b> , 317-330		

1066	Functionalized TiO <sub>2</sub> Based Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5464-5481	15.6	168
1065	Restoration of chemosensitivity by multifunctional micelles mediated by P-gp siRNA to reverse MDR. <i>Biomaterials</i> , <b>2014</b> , 35, 8621-34	15.6	56
1064	In vitro and in vivo anti-biofilm effects of silver nanoparticles immobilized on titanium. <i>Biomaterials</i> , <b>2014</b> , 35, 9114-25	15.6	173
1063	CdS:Mn Polysulfido Complex Nanoclusters with H <sub>2</sub> O <sub>2</sub> -Dependent and Site-Specific Color Changes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 11085-11092	3.8	3
1062	Silicon Carbide Nanostructures. <i>Engineering Materials and Processes</i> , <b>2014</b> ,		35
1061	Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. <i>Biomaterials</i> , <b>2014</b> , 35, 7699-713	15.6	276
1060	Photothermal contribution to enhanced photocatalytic performance of graphene-based nanocomposites. <i>ACS Nano</i> , <b>2014</b> , 8, 9304-10	16.7	181
1059	Multifunctional cationic polymer decorated and drug intercalated layered silicate (NLS) for early gastric cancer prevention. <i>Biomaterials</i> , <b>2014</b> , 35, 3298-308	15.6	18
1058	Facile fabrication of superhydrophobic surface with excellent mechanical abrasion and corrosion resistance on copper substrate by a novel method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8762-70	9.5	319
1057	All-silicon solid films with highly efficient and tunable full-color photoluminescence. <i>Scripta Materialia</i> , <b>2014</b> , 76, 17-20	5.6	4
1056	Colorimetric and ultra-sensitive fluorescence resonance energy transfer determination of H <sub>2</sub> O <sub>2</sub> and glucose by multi-functional Au nanoclusters. <i>Analyst, The</i> , <b>2014</b> , 139, 1498-503	5	58
1055	Impedance study of adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , <b>2014</b> , 132, 165-171	6.7	5
1054	Surface electromagnetic wave equations in a warm magnetized quantum plasma. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 072114	2.1	15
1053	Regulating Water Adhesion on Superhydrophobic TiO <sub>2</sub> Nanotube Arrays. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6381-6388	15.6	59
1052	Nanosized carbon black combined with Ni <sub>2</sub> O <sub>3</sub> as "universal" catalysts for synergistically catalyzing carbonization of polyolefin wastes to synthesize carbon nanotubes and application for supercapacitors. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4048-55	10.3	60
1051	Gamma-irradiated carbon nanotube yarn as substrate for high-performance fiber supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2553-60	9.5	50
1050	Surface modification of biomedical magnesium alloy wires by micro-arc oxidation. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 1058-1064	3.3	20
1049	Rare-earth-incorporated polymeric vector for enhanced gene delivery. <i>Biomaterials</i> , <b>2014</b> , 35, 479-88	15.6	10

1048	Multifunctional gold coated rare-earth hydroxide fluoride nanotubes for simultaneous wastewater purification and quantitative pollutant determination. <i>Materials Research Bulletin</i> , <b>2014</b> , 52, 122-127	5.1	6
1047	Multi-functional honeycomb ceramic materials produced from bauxite residues. <i>Materials &amp; Design</i> , <b>2014</b> , 59, 333-338		9
1046	Multilevel surface engineering of nanostructured TiO <sub>2</sub> on carbon-fiber-reinforced polyetheretherketone. <i>Biomaterials</i> , <b>2014</b> , 35, 5731-40	15.6	64
1045	Irradiation effects on multilayered W/ZrO <sub>2</sub> film under 4 MeV Au ions. <i>Journal of Nuclear Materials</i> , <b>2014</b> , 455, 86-90	3.3	12
1044	Functionalization of biomedical materials using plasma and related technologies. <i>Applied Surface Science</i> , <b>2014</b> , 310, 11-18	6.7	19
1043	Metal oxide coating on first mirror in fusion reactor with carbon wall. <i>Surface and Coatings Technology</i> , <b>2014</b> , 240, 464-469	4.4	1
1042	Fabrication of highly ordered porous nickel oxide anode materials and their electrochemical characteristics in lithium storage. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 594, 65-69	5.7	14
1041	Removal of organic pollutants from super heavy oil wastewater by lignite activated coke. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 447, 120-130	5.1	24
1040	Electrodeposition of nanostructured MnO <sub>2</sub> electrode on three-dimensional nickel/silicon microchannel plates for miniature supercapacitors. <i>Materials Letters</i> , <b>2014</b> , 126, 116-118	3.3	15
1039	Surface changes in Fe <sub>70</sub> Cr <sub>30</sub> alloy bombarded by relativistic pulsed electron beam and associated mechanism. <i>Vacuum</i> , <b>2014</b> , 101, 136-141	3.7	3
1038	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 544-56	10.8	157
1037	Synergistic effect of chloride ion and albumin on the corrosion of pure magnesium. <i>Frontiers of Materials Science</i> , <b>2014</b> , 8, 244-255	2.5	12
1036	Electron density measurements of atmospheric-pressure non-thermal N <sub>2</sub> plasma jet by Stark broadening and irradiance intensity methods. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 053510	2.1	33
1035	Cyclodextrin-based host-guest supramolecular nanoparticles for delivery: from design to applications. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 2017-25	24.3	331
1034	Poly(ethylene glycol)/carbon quantum dot composite solid films exhibiting intense and tunable blueLED emission. <i>Applied Surface Science</i> , <b>2014</b> , 311, 490-497	6.7	55
1033	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of Mg <sub>92</sub> RE alloy in simulated body fluid and cell culture medium. <i>Corrosion Science</i> , <b>2014</b> , 86, 239-251	6.8	40
1032	Competitive reaction pathway for site-selective conjugation of Raman dyes to hotspots on gold nanorods for greatly enhanced SERS performance. <i>Small</i> , <b>2014</b> , 10, 4012-9	11	16
1031	Stimulation of bone growth following zinc incorporation into biomaterials. <i>Biomaterials</i> , <b>2014</b> , 35, 6882-93.6	93.6	191

1030	Microporous N-doped carbon film produced by cold atmospheric plasma jet and its cell compatibility. <i>Vacuum</i> , <b>2014</b> , 108, 27-34	3.7	7
1029	Antibacterial and mechanical properties of honeycomb ceramic materials incorporated with silver and zinc. <i>Materials &amp; Design</i> , <b>2014</b> , 59, 461-465		23
1028	Three-dimensional nanoscale Co <sub>3</sub> O <sub>4</sub> electrode on ordered Ni/Si microchannel plates for electrochemical supercapacitors. <i>Materials Letters</i> , <b>2014</b> , 132, 405-408	3.3	11
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1026	Improved ion implant fluence uniformity in hydrogen enhanced glow discharge plasma immersion ion implantation into silicon. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 063506	1.7	2
1025	Cubic In <sub>2</sub> O <sub>3</sub> Microparticles for Efficient Photoelectrochemical Oxygen Evolution. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 4298-304	6.4	41
1024	Improved corrosion resistance of Mg-Y-RE alloy coated with niobium nitride. <i>Thin Solid Films</i> , <b>2014</b> , 572, 85-90	2.2	12
1023	3C-SiC nanocrystals/TiO <sub>2</sub> nanotube heterostructures with enhanced photocatalytic performance. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 231902	3.4	10
1022	Tribological properties of polyimide coatings filled with PTFE and surface-modified nano-Si <sub>3</sub> N <sub>4</sub> . <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	15
1021	Engineered polycaprolactone/magnesium hybrid biodegradable porous scaffold for bone tissue engineering. <i>Progress in Natural Science: Materials International</i> , <b>2014</b> , 24, 561-567	3.6	47
1020	Enhanced Photodegradation of Methyl Orange Synergistically by Microcrystal Facet Cutting and Flexible Electrically-Conducting Channels. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28063-28068	3.8	22
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1018	General Properties of Bulk SiC. <i>Engineering Materials and Processes</i> , <b>2014</b> , 7-114		5
1017	Plasma-target surface interaction during non-equilibrium plasma irradiation at atmospheric pressure: Generation of dusty plasma. <i>Laser and Particle Beams</i> , <b>2014</b> , 32, 69-78	0.9	5
1016	Specific wave interface and its formation during magnetic pulse welding. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 221901	3.4	24
1015	SiC Nanostructured Films. <i>Engineering Materials and Processes</i> , <b>2014</b> , 295-315		
1014	Microstructure and properties of ZrTiC(N) composite films on NiTi alloy. <i>Surface Engineering</i> , <b>2014</b> , 30, 860-865	2.6	4
1013	Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. <i>Biomaterials</i> , <b>2014</b> , 35, 4255-65	15.6	273

1012	Mineral wool fibers incorporated with cuprous oxide for visible light photocatalytic inactivation of Escherichia coli. <i>Ceramics International</i> , <b>2014</b> , 40, 5407-5412	5.1	6
1011	The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. <i>Biomaterials</i> , <b>2014</b> , 35, 4223-35	15.6	271
1010	Enhanced corrosion resistance and hemocompatibility of biomedical NiTi alloy by atmospheric-pressure plasma polymerized fluorine-rich coating. <i>Applied Surface Science</i> , <b>2014</b> , 297, 109-115	6.7	24
1009	Electrochemical properties and corrosion resistance of carbon-ion-implanted magnesium. <i>Corrosion Science</i> , <b>2014</b> , 82, 173-179	6.8	46
1008	Vascular endothelial cell compatibility of superhard ternary TiSiN coatings with different Si contents. <i>Vacuum</i> , <b>2014</b> , 106, 53-63	3.7	5
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1005	Rice Husk-Derived Activated Carbon for Li Ion Battery Anode. <i>Nanoscience and Nanotechnology Letters</i> , <b>2014</b> , 6, 68-71	0.8	24
1004	Enhanced discharge of high power pulsed magnetron sputtering coupling with high voltage. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2014</b> , 63, 185207	0.6	3
1003	SiC Nanowires. <i>Engineering Materials and Processes</i> , <b>2014</b> , 195-269		
1002	Progress in direct-current plasma immersion ion implantation and recent applications of plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , <b>2013</b> , 229, 2-11	4.4	16
1001	Surface engineering and modification of biomaterials. <i>Thin Solid Films</i> , <b>2013</b> , 528, 93-105	2.2	38
1000	Interface analysis of inorganic films on polyimide with atomic oxygen exposure. <i>Surface and Coatings Technology</i> , <b>2013</b> , 216, 121-126	4.4	19
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990	Antimicrobial effects of oxygen plasma modified medical grade Ti6Al4V alloy. <i>Vacuum</i> , <b>2013</b> , 89, 271-279	3.7	9
989	Transformation of Enhanced Glow Discharge Dynamics in Nitrogen Plasma Immersion Ion Implantation. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 553-558	1.3	2
988	Direct and diffuse reflection of electron waves at armchair edges of epitaxial graphene. <i>RSC Advances</i> , <b>2013</b> , 3, 25735	3.7	6
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983	Tunable fluorescence from patterned silver nano-island arrays for sensitive sub-cell imaging. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 495302	3	7
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974	Structure and corrosion resistance of Ti/TiC coatings fabricated by plasma immersion ion implantation and deposition on nickel/titanium. <i>Surface and Coatings Technology</i> , <b>2013</b> , 229, 151-155	4.4	27
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802	Recyclable and high-sensitivity electrochemical biosensing platform composed of carbon-doped TiO <sub>2</sub> nanotube arrays. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8138-44	7.8	62
801	Plasma Immersion Ion Implantation Into Inner Surface of Cylindrical Bore Using Moving Auxiliary Electrode. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 3120-3124	1.3	3
800	Surface Treatments of Nearly Equiatomic NiTi Alloy (Nitinol) for Surgical Implants <b>2011</b> ,		1
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798	Toxicity of carbon nanotubes to p21 and hus1 gene deficient mammalian cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 11001-5	1.3	4
797	Investigation of inner surface of silicon microchannels fabricated by electrochemical method. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 11045-8	1.3	

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788	Electrochemical stability of TiO <sub>2</sub> nanotubes with different diameters in artificial saliva. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 63-67	4.4	29
787	Uniformity enhancement of incident dose on concave surface in plasma immersion ion implantation assisted by beam-line ion source. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 2021-2024	4.4	7
786	Extraction of organic materials from red water by metal-impregnated lignite activated carbon. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 197, 352-60	12.8	18
785	Analysis of hazardous organic residues from sodium hydrosulfite industry and utilization as raw materials in a novel solid lubricant production. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 198, 65-9	12.8	6
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783	Cross-linked polystyrene microspheres as density-reducing agent in drilling fluid. <i>Journal of Petroleum Science and Engineering</i> , <b>2011</b> , 78, 529-533	4.4	9
782	Silver implanted 316L stainless steel as bipolar plates in polymer electrolyte membrane fuel cells. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 6-11	4.4	24
781	Corrosion behavior on orthopedic NiTi alloy with nanocrystalline/amorphous surface. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 102-107	4.4	43
780	Improved tribological properties of TiC with porous nanostructured TiO <sub>2</sub> intermediate layer. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 131, 420-424	4.4	4
779	Rapid degradation of biomedical magnesium induced by zinc ion implantation. <i>Materials Letters</i> , <b>2011</b> , 65, 661-663	3.3	40

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776	Corrosion behavior of SS316L in simulated and accelerated PEMFC environments. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 13032-13042	6.7	58
775	Preparation of controllable core-shell gold nanoparticles and its application in detection of silver ions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 183-90	9.5	34
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773	Reversible phase transformation in graphene nano-ribbons: Lattice shearing based mechanism. <i>Acta Materialia</i> , <b>2011</b> , 59, 6783-6789	8.4	20
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7 <sup>23</sup>	Influence of annular magnet on discharge characteristics in enhanced glow discharge plasma immersion ion implantation. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 021502	3.4	2
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664	Glycerol-bonded 3C-SiC nanocrystal solid films exhibiting broad and stable violet to blue-green emission. <i>Nano Letters</i> , <b>2010</b> , 10, 1466-71	11.5	55
663	Microstructure and tribological properties of ternary BCN thin films with different carbon contents. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1225-1229	3.5	11
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659	Identification of local silicon cluster nanostructures inside Si(x)Ge(1-x) alloy nanocrystals by Raman spectroscopy. <i>Chemical Communications</i> , <b>2010</b> , 46, 5539-41	5.8	12
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651	Mechanism of cell repellence on quasi-aligned nanowire arrays on Ti alloy. <i>Biomaterials</i> , <b>2010</b> , 31, 8341-9	15.6	48
650	Mechanical and biological characteristics of diamond-like carbon coated poly aryl-ether-ether-ketone. <i>Biomaterials</i> , <b>2010</b> , 31, 8181-7	15.6	116
649	Interfacial adhesion measurement of a ceramic coating on metal substrate <b>2010</b> , 7, 391-398		8
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241	Plasma-treated nanostructured TiO(2) surface supporting biomimetic growth of apatite. <i>Biomaterials</i> , <b>2005</b> , 26, 6143-50	15.6	102
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228	Microwave-cut silicon layer transfer. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 224103	3.4	11
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