Cheng-Yan Xu

List of Publications by Citations

204 papers	7,938 citations	49 h-index	81 g-index
215 ext. papers	9,140 ext. citations	7.5 avg, IF	6.31 L-index

#	Paper	IF	Citations
204	Hierarchical Mo2 C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. *Angewandte Chemie - International Edition*, **2015**, 54, 15395-9	16.4	485
203	Self-supported formation of hierarchical NiCo2O4 tetragonal microtubes with enhanced electrochemical properties. *Energy and Environmental Science*, **2016**, 9, 862-866	35.4	358
202	Formation of Uniform Fe3 O4 Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. *Advanced Materials*, **2015**, 27, 4097-101	24	346
201	Ternary Metal Phosphide with Triple-Layered Structure as a Low-Cost and Efficient Electrocatalyst for Bifunctional Water Splitting. *Advanced Functional Materials*, **2016**, 26, 7644-7651	15.6	303
200	Monodisperse SnS nanosheets for high-performance photocatalytic hydrogen generation. *ACS Applied Materials & Interfaces*, **2014**, 6, 22370-7	9.5	181
199	Carrier control of MoS2 nanoflakes by functional self-assembled monolayers. *ACS Nano*, **2013**, 7, 7795-804	16.7	172
198	Controlled Growth of a Large-Size 2D Selenium Nanosheet and Its Electronic and Optoelectronic Applications. *ACS Nano*, **2017**, 11, 10222-10229	16.7	128
197	Yb- and Mn-Doped Lead-Free Double Perovskite CsAgBiX (X = Cl, Br) Nanocrystals. *ACS Applied Materials & Interfaces*, **2019**, 11, 16855-16863	9.5	125
196	Intrinsically Mn2+-Chelated Polydopamine Nanoparticles for Simultaneous Magnetic Resonance Imaging and Photothermal Ablation of Cancer Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 16946-52	9.5	125
195	Photodiode-like behavior and excellent photoresponse of vertical Si/monolayer MoS2 heterostructures. *Scientific Reports*, **2014**, 4, 7186	4.9	120
194	A Dual-Band Multilayer InSe Self-Powered Photodetector with High Performance Induced by Surface Plasmon Resonance and Asymmetric Schottky Junction. *ACS Nano*, **2018**, 12, 8739-8747	16.7	120
193	Significantly Increased Raman Enhancement on MoX2 (X = S, Se) Monolayers upon Phase Transition. *Advanced Functional Materials*, **2017**, 27, 1606694	15.6	114
192	Surface potential and interlayer screening effects of few-layer MoS2 nanoflakes. *Applied Physics Letters*, **2013**, 102, 143110	3.4	112
191	Hierarchical Mo2C Nanotubes Organized by Ultrathin Nanosheets as a Highly Efficient Electrocatalyst for Hydrogen Production. *Angewandte Chemie*, **2015**, 127, 15615-15619	3.6	105
190	Microwave absorption properties of FeNi3submicrometre spheres and SiO2@FeNi3core shell structures. *Journal Physics D: Applied Physics*, **2010**, 43, 245003	3	104
189	Sulfurizing-Induced Hollowing of CoS Microplates with Nanosheet Units for Highly Efficient Water Oxidation. *ACS Applied Materials & Interfaces*, **2017**, 9, 11634-11641	9.5	103
188	Synthesis of single-crystalline niobate nanorods via ion-exchange based on molten-salt reaction. *Journal of the American Chemical Society*, **2007**, 129, 15444-5	16.4	101

187	Synthesis and characterization of single-crystalline alkali titanate nanowires. *Journal of the American Chemical Society*, **2005**, 127, 11584-5	16.4	95
186	Room temperature synthesis of hollow CdMoO(4) microspheres by a surfactant-free aqueous solution route. *Journal of Physical Chemistry B*, **2006**, 110, 23154-8	3.4	94
185	Carbon-Coated Nickel Phosphide Nanosheets as Efficient Dual-Electrocatalyst for Overall Water Splitting. *ACS Applied Materials & Interfaces*, **2016**, 8, 27850-27858	9.5	94
184	Synthesis and characterization of single-crystalline MnFe2O4 nanorods via a surfactant-free hydrothermal route. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, 2672-2675	2.8	88
183	Metallic FePSe3 nanoparticles anchored on N-doped carbon framework for All-pH hydrogen evolution reaction. *Nano Energy*, **2019**, 57, 222-229	17.1	87
182	CoFe and CoFe@SiO Nanospheres with Tunable Diameters for High-Performance Electromagnetic Wave Absorption. *ACS Applied Materials & Interfaces*, **2017**, 9, 21933-21941	9.5	86
181	Room Temperature Synthesis, Growth Mechanism, Photocatalytic and Photoluminescence Properties of Cadmium Molybdate Core□Shell Microspheres. *Crystal Growth and Design*, **2009**, 9, 1558-1568	3.5	81
180	Controlled Synthesis of Calcium Tungstate Hollow Microspheres via Ostwald Ripening and Their Photoluminescence Property. *Journal of Physical Chemistry C*, **2008**, 112, 19390-19398	3.8	75
179	Two-Dimensional van der Waals Materials with Aligned In-Plane Polarization and Large Piezoelectric Effect for Self-Powered Piezoelectric Sensors. *Nano Letters*, **2019**, 19, 5410-5416	11.5	74
178	Metallic and superhydrophilic nickel cobalt diselenide nanosheets electrodeposited on carbon cloth as a bifunctional electrocatalyst. *Journal of Materials Chemistry A*, **2018**, 6, 17353-17360	13	70
177	Encapsulating MnO nanoparticles within foam-like carbon nanosheet matrix for fast and durable lithium storage. *Nano Energy*, **2018**, 50, 675-684	17.1	69
176	Resonance-antiresonance electromagnetic behavior in a disordered dielectric composite. *Applied Physics Letters*, **2007**, 90, 142907	3.4	69
175	Synthesis of hexagonal Fe microflakes with excellent microwave absorption performance. *CrystEngComm*, **2012**, 14, 6827	3.3	67
174	Synthesis, characterization and electromagnetic properties of Fe1□Cox alloy flower-like microparticles. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 515-520	2.8	66
173	Room Temperature Synthesis of Hierarchical SrCO3 Architectures by a Surfactant-Free Aqueous Solution Route. *Crystal Growth and Design*, **2008**, 8, 1734-1740	3.5	66
172	Pseudocapacitance of TiO /CNT Anodes for High-Performance Quasi-Solid-State Li-Ion and Na-Ion Capacitors. *Small*, **2018**, 14, e1704508	11	65
171	Shape- and Size-Controlled Synthesis of Calcium Molybdate Doughnut-Shaped Microstructures. *Journal of Physical Chemistry C*, **2009**, 113, 16414-16423	3.8	65
170	Phase Transition Induced Synthesis of Layered/Spinel Heterostructure with Enhanced Electrochemical Properties. *Advanced Functional Materials*, **2017**, 27, 1604349	15.6	63

169	Robust and Conductive Na2Ti2O5 Nanowire Arrays for High-Performance Flexible Sodium-Ion Capacitor. *Chemistry of Materials*, **2017**, 29, 9133-9141	9.6	62
168	Hydrothermal synthesis and characterization of single-crystalline Fe3O4 nanowires with high aspect ratio and uniformity. *Materials Letters*, **2007**, 61, 3159-3162	3.3	62
167	Dual conductive surface engineering of Li-Rich oxides cathode for superior high-energy-density Li-Ion batteries. *Nano Energy*, **2019**, 59, 527-536	17.1	61
166	Aqueous Solution Synthesis of Cd(OH)2 Hollow Microspheres via Ostwald Ripening and Their Conversion to CdO Hollow Microspheres. *Journal of Physical Chemistry C*, **2008**, 112, 14360-14366	3.8	60
165	Unraveling the Raman Enhancement Mechanism on 1T Phase ReS Nanosheets. *Small*, **2018**, 14, e1704079	11	56
164	Deformation localization and recrystallization in TC4 alloy under impact condition. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 395, 98-101	5.3	54
163	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. *2D Materials* , **2018**, 5, 021002	5.9	53
162	Hydrothermal synthesis of well-dispersed LiMnPO4 plates for lithium ion batteries cathode. *Electrochimica Acta*, **2013**, 87, 303-308	6.7	53
161	Glucose-Derived Carbonaceous Nanospheres for Photoacoustic Imaging and Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2016**, 8, 15904-10	9.5	52
160	Molten salt synthesis of Na2Ti3O7 and Na2Ti6O13 one-dimensional nanostructures and their photocatalytic and humidity sensing properties. *CrystEngComm*, **2013**, 15, 3448	3.3	52
159	Elastic properties of suspended black phosphorus nanosheets. *Applied Physics Letters*, **2016**, 108, 013104	3.4	52
158	NiSe2 pyramids deposited on N-doped graphene encapsulated Ni foam for high-performance water oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 3981-3986	13	51
157	Aqueous solution synthesis of CaF2 hollow microspheres via the ostwald ripening process at room temperature. *ACS Applied Materials & Interfaces*, **2009**, 1, 780-8	9.5	50
156	Self-organized sheaf-like Fe3O4/C hierarchical microrods with superior lithium storage properties. *Nanoscale*, **2015**, 7, 4411-4	7.7	49
155	In Situ Growth of Sn-Doped Ni3S2 Nanosheets on Ni Foam as High-Performance Electrocatalyst for Hydrogen Evolution Reaction. *ChemElectroChem*, **2017**, 4, 594-600	4.3	48
154	Solvothermal synthesis of Bi2WO6 hollow structures with excellent visible-light photocatalytic properties. *Materials Letters*, **2013**, 95, 117-120	3.3	47
153	Preparation of CoFe alloy nanoparticles with tunable electromagnetic wave absorption performance. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3702-3705	2.8	47
152	High photocatalytic activity and photoluminescence property of hollow CdMoO4 microspheres. *Scripta Materialia*, **2008**, 58, 461-464	5.6	46

151	Liquid Exfoliation of Colloidal Rhenium Disulfide Nanosheets as a Multifunctional Theranostic Agent for In Vivo Photoacoustic/CT Imaging and Photothermal Therapy. *Small*, **2018**, 14, e1703789	11	45
150	Tuning the Excitonic States in MoS2/Graphene van der Waals Heterostructures via Electrochemical Gating. *Advanced Functional Materials*, **2016**, 26, 293-302	15.6	44
149	Construction of FeP Hollow Nanoparticles Densely Encapsulated in Carbon Nanosheet Frameworks for Efficient and Durable Electrocatalytic Hydrogen Production. *Advanced Science*, **2019**, 6, 1801490	13.6	44
148	Electrical and photocatalytic properties of Na2Ti6O13 nanobelts prepared by molten salt synthesis. *Applied Surface Science*, **2009**, 255, 4149-4152	6.7	43
147	Synthesis and microwave electromagnetic properties of CoFe alloy nanoflakes prepared with hydrogen-thermal reduction method. *Journal of Applied Physics*, **2009**, 106, 064302	2.5	43
146	A facile hydrothermal route to the large-scale synthesis of CoWO4 nanorods. *Materials Letters*, **2008**, 62, 1740-1742	3.3	42
145	Understanding the phase transitions in spinel-layered-rock salt system: Criterion for the rational design of LLO/spinel nanocomposites. *Nano Energy*, **2017**, 40, 566-575	17.1	41
144	Microstructure evolution of adiabatic shear bands in AM60B magnesium alloy under ballistic impact. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 5728-5733	5.3	41
143	Fractal growth of single-crystal □Fe2O3: From dendritic micro-pines to hexagonal micro-snowflakes. *Materials Letters*, **2008**, 62, 739-742	3.3	41
142	Ca(II) doped □nS hierarchical structures for photocatalytic hydrogen generation and organic dye degradation under visible light irradiation. *Journal of Colloid and Interface Science*, **2017**, 491, 230-237	9.3	40
141	Characterization of adiabatic shear bands in AM60B magnesium alloy under ballistic impact. *Materials Characterization*, **2011**, 62, 496-502	3.9	40
140	Dopamine-Induced Formation of Ultrasmall Few-Layer MoS Homogeneously Embedded in N-Doped Carbon Framework for Enhanced Lithium-Ion Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 33741-33748	9.5	39
139	Synthesis of Fe□errite composite nanotubes with excellent microwave absorption performance. *CrystEngComm*, **2011**, 13, 6839	3.3	39
138	Nitrogen-doped carbon nanotubes/reduced graphene oxide nanosheet hybrids towards enhanced cathodic oxygen reduction and power generation of microbial fuel cells. *Nano Energy*, **2019**, 61, 533-539	17.1	38
137	Constructing yolk-shell MnO@C nanodiscs through a carbothermal reduction process for highly stable lithium storage. *Chemical Engineering Journal*, **2018**, 336, 427-435	14.7	38
136	Strong dual-frequency electromagnetic absorption in Ku-band of C@FeNi3 core/shell structured microchains with negative permeability. *Journal of Magnetism and Magnetic Materials*, **2014**, 349, 159-164	2.8	37
135	Formation of CdMoO4 porous hollow nanospheres via a self-assembly accompanied with Ostwald ripening process and their photocatalytic performance. *CrystEngComm*, **2013**, 15, 8014	3.3	37
134	Ternary SnS(2-x)Se(x) Alloys Nanosheets and Nanosheet Assemblies with Tunable Chemical Compositions and Band Gaps for Photodetector Applications. *Scientific Reports*, **2015**, 5, 17109	4.9	37

133	Epitaxial Growth of 1D Atomic Chain Based Se Nanoplates on Monolayer ReS2 for High-Performance Photodetectors. *Advanced Functional Materials*, **2018**, 28, 1806254	15.6	37
132	Microstructure and magnetic properties of SiC/Co composite particles prepared by electroless plating. *Surface and Coatings Technology*, **2006**, 201, 3139-3146	4.4	35
131	Microwave absorption properties of FeSi flaky particles prepared via a ball-milling process. *Journal of Magnetism and Magnetic Materials*, **2015**, 395, 152-158	2.8	32
130	Eu3+-doped CdMoO4 red phosphor synthesized through an aqueous solution route at room temperature. *Journal of Alloys and Compounds*, **2012**, 529, 17-20	5.7	32
129	Synthesis of Fe/SiO2 composite particles and their superior electromagnetic properties in microwave band. *Materials Letters*, **2010**, 64, 57-60	3.3	32
128	PEGylated rhenium nanoclusters: a degradable metal photothermal nanoagent for cancer therapy. *Chemical Science*, **2019**, 10, 5435-5443	9.4	31
127	Synthesis of Bi2WO6 hierarchical structures constructed by porous nanoplates and their associated photocatalytic properties under visible light irradiation. *Ceramics International*, **2014**, 40, 11689-11698	5.1	31
126	Deformed microstructure evolution in AM60B Mg alloy under hypervelocity impact at a velocity of 5kms□1. *Materials & Design*, **2010**, 31, 3708-3715		31
125	Microstructure and magnetic properties of Fe□5Cr□2Co□Si alloy thermo-magnetically treated in intense magnetic field. *Journal of Magnetism and Magnetic Materials*, **2004**, 283, 231-237	2.8	31
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123	Work function modulation of bilayer MoS2 nanoflake by backgate electric field effect. *Applied Physics Letters*, **2013**, 103, 033122	3.4	30
122	Formation of FeMoO4 hollow microspheres via a chemical conversion-induced Ostwald ripening process. *CrystEngComm*, **2012**, 14, 7025	3.3	30
121	Electric Field Tunable Interlayer Relaxation Process and Interlayer Coupling in WSe2/Graphene Heterostructures. *Advanced Functional Materials*, **2016**, 26, 4319-4328	15.6	30
120	In-situ growth of graphene decorated Ni3S2 pyramids on Ni foam for high-performance overall water splitting. *Applied Surface Science*, **2019**, 465, 772-779	6.7	30
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118	Synthesis of LiMnPO4 microspheres assembled by plates, wedges and prisms with different crystallographic orientations and their electrochemical performance. *CrystEngComm*, **2012**, 14, 6412	3.3	29
117	Carbon-coated CoFe-CoFeO composite particles with high and dual-band electromagnetic wave absorbing properties. *Nanotechnology*, **2018**, 29, 305604	3.4	29
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113	Thermal-induced interlayer defect engineering toward super high-performance sodium ion capacitors. *Nano Energy*, **2019**, 59, 17-25	17.1	26
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107	Low temperature electrochemical performance of □Li V2O5 cathode for lithium-ion batteries. *Electrochimica Acta*, **2015**, 169, 440-446	6.7	23
106	Rational Construction of Uniform CoNi-Based Core-Shell Microspheres with Tunable Electromagnetic Wave Absorption Properties. *Scientific Reports*, **2018**, 8, 3196	4.9	23
105	Large-scale synthesis of single-crystalline KNb3O8 nanobelts via a simple molten salt method. *Ceramics International*, **2010**, 36, 679-682	5.1	22
104	Improvement on electromagnetic absorbing performance of Al18B4O33w/Co composite particles through heat treatment. *Scripta Materialia*, **2008**, 59, 967-970	5.6	22
103	Disket-Nanorings of K2Ti6O13 Formed by Self-Spiraling of a Nanobelt. *Journal of Physical Chemistry C*, **2008**, 112, 7547-7551	3.8	22
102	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. *ACS Nano*, **2020**, 14, 10018-10026	16.7	22
101	Hybrid dual-channel phototransistor based on 1D t-Se and 2D ReS2 mixed-dimensional heterostructures. *Nano Research*, **2019**, 12, 669-674	10	22
100	Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes. *Nano Letters*, **2018**, 18, 5078-5084	11.5	21
99	Sulfur vacancies promoting Fe-doped Ni3S2 nanopyramid arrays as efficient bifunctional electrocatalysts for overall water splitting. *Sustainable Energy and Fuels*, **2020**, 4, 3326-3333	5.8	20
98	Natural Humic-Acid-Based Phototheranostic Agent. *Advanced Healthcare Materials*, **2018**, 7, e1701202	10.1	20

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94	Shape-controlled synthesis of zinc phosphate nanostructures by an aqueous solution route at room temperature. *Materials Letters*, **2012**, 82, 26-28	3.3	19
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91	One-pot synthesis of paramagnetic iron(III) hydroxide nanoplates and ferrimagnetic magnetite nanoparticles for the removal of arsenic ions. *Chemical Engineering Journal*, **2014**, 250, 409-415	14.7	18
90	Microstructure evolution of cobalt coating electroless plated on SiC whisker during electroless plating and heat treatment. *Surface and Coatings Technology*, **2007**, 201, 6059-6062	4.4	18
89	Large-scale Synthesis of SrCrO4Nanowires and PbCrO4Nanorods by a Solution-phase Method at Room Temperature. *Chemistry Letters*, **2006**, 35, 268-269	1.7	18
88	Synthesis of CoFe/Al2O3 composite nanoparticles as the impedance matching layer of wideband multilayer absorber. *Journal of Applied Physics*, **2011**, 109, 07A332	2.5	17
87	Synthesis of self-stacked CuFe2O4Fe2O3 porous nanosheets as a high performance Li-ion battery anode. *Journal of Materials Chemistry A*, **2014**, 2, 19330-19337	13	16
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85	Co/SiO2 composite particles with high electromagnetic wave absorbing performance and weather resistance. *Journal of Magnetism and Magnetic Materials*, **2013**, 334, 111-118	2.8	15
84	Effect of ray irradiation on the magnetic properties of NdFeB and FeCrCo permanent magnets. *Journal of Magnetism and Magnetic Materials*, **2006**, 302, 156-159	2.8	15
83	High-Performance van der Waals Metal-Insulator-Semiconductor Photodetector Optimized with Valence Band Matching. *Advanced Functional Materials*, **2021**, 31, 2104359	15.6	15
82	Self-standing flexible cathode of V2O5 nanobelts with high cycling stability for lithium-ion batteries. *Ceramics International*, **2016**, 42, 14595-14600	5.1	15
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80	Electrochemical Lithium Insertion Behavior ofLixV2O5(0 . *Journal of the Electrochemical Society*, **2014**, 161, A75-A83	3.9	14

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74	Synthesis and formation process of SrSO4 sisal-like hierarchical structures at room temperature. *CrystEngComm*, **2011**, 13, 620-625	3.3	13
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68	Van der Waals heterostructures with one-dimensional atomic crystals. *Progress in Materials Science*, **2021**, 122, 100856	42.2	12
67	Microstructural characterization of single-crystalline potassium hollandite nanowires. *Materials Characterization*, **2008**, 59, 1805-1808	3.9	11
66	Electrical and microwave dielectric properties of K2Nb8O21 microwires. *Ceramics International*, **2009**, 35, 3021-3025	5.1	10
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64	Spinodal decomposition in Fe□25Cr□12Co□1Si alloy under a 100 kOe magnetic field. *Journal of Magnetism and Magnetic Materials*, **2006**, 306, 69-72	2.8	10
63	In-situ growth of CNTs encapsulating P-doped NiSe2 nanoparticles on carbon framework as efficient bifunctional electrocatalyst for overall water splitting. *Journal of Energy Chemistry*, **2021**, 60, 111-120	12	10
62	Electrophoretically Deposited -Phenylene Diamine Reduced Graphene Oxide Ultrathin Film on LiNiMnO Cathode to Improve the Cycle Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 35667-35674	9.5	9

61	Colloidal synthesis and formation mechanism of calcium molybdate notched microspheres. *CrystEngComm*, **2014**, 16, 2598	3.3	9
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59	Photoluminescence inhomogeneity and excitons in CVD-grown monolayer WS2. *Optical Materials*, **2018**, 80, 203-208	3.3	9
58	Bifunctional WC-Supported RuO2 Nanoparticles for Robust Water Splitting in Acidic Media.. *Angewandte Chemie - International Edition*, **2022**,	16.4	9
57	Solvothermal Synthesis of InOOH Nanospheres with Enhanced Photocatalytic Activity. *Bulletin of the Korean Chemical Society*, **2016**, 37, 522-528	1.2	8
56	Superparamagnetic nickel ferrite colloidal spheres for constructing magnetically responsive photonic crystals. *Materials Letters*, **2012**, 81, 62-64	3.3	8
55	Environmentally friendly aqueous solution synthesis of hierarchical CaWO4 microspheres at room temperature. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 1288-94	1.3	8
54	Layered potassium vanadate K2V6O16 nanowires: A stable and high capacity cathode material for calcium-ion batteries. *Journal of Power Sources*, **2020**, 479, 228793	8.9	7
53	Thickness-controllable coating of SiO2 on Co microspheres with tunable electromagnetic properties and enhanced oxidation resistance. *RSC Advances*, **2016**, 6, 107653-107658	3.7	7
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