Xuemin Yin

List of Publications by Year
in descending order

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124 papers	6,267 citations	61857 43 h-index	76769 74 g-index
124 all docs	124 docs citations	124 times ranked	3673 citing authors

#	Article	IF	Citations
1	Micro/nano multiscale reinforcing strategies toward extreme high-temperature applications: Take carbon/carbon composites and their coatings as the examples. Journal of Materials Science and Technology, 2022, 96, 31-68.	5.6	113
2	Ultra-high temperature resistance of one-dimensional hafnium carbide wrapped with pyrolytic carbon up to 2450Âå„ƒ. Corrosion Science, 2022, 195, 110015.	3.0	9
3	Preparation and ablation resistance of ZrC nanowires-reinforced CVD-ZrC coating on sharp leading edge C/C composites. Applied Surface Science, 2022, 584, 152617.	3.1	15
4	Nano-interface effect of graphene on carbon nanotube reinforced carbon/carbon composites. Carbon, 2022, 190, 422-429.	5.4	39
5	Free-standing Si3N4 nanowires@pyrolytic carbon membranes decorated with metal oxide nanoarrays for flexible hybrid supercapacitors. Journal of Energy Storage, 2022, 49, 104156.	3.9	4
6	Advances in ultra-high temperature ceramics, composites, and coatings. Journal of Advanced Ceramics, 2022, 11, 1-56.	8.9	256
7	Carbon nanotube reinforced pyrocarbon matrix composites with high coefficient of thermal expansion for self-adapting ultra-high-temperature ceramic coatings. Ceramics International, 2022, 48, 15668-15676.	2.3	9
8	Carbon Microtube/NiCo Carbonate Hydride Nanoneedle Composite Foams for Broadband Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2022, 5, 4082-4090.	2.4	10
9	Multifunctional electromagnetic interference shielding 3D reduced graphene oxide/vertical edge-rich graphene/epoxy nanocomposites with remarkable thermal management performance. Composites Science and Technology, 2022, 222, 109407.	3.8	41
10	Simultaneously enhancing mechanical and tribological properties of carbon fiber composites by grafting SiC hexagonal nanopyramids for brake disk application. Journal of Materials Science and Technology, 2022, 121, 1-8.	5.6	8
11	MnO2 Nanosheets Decorated MOF-Derived Co3O4 Triangle Nanosheet Arrays for High-Performance Supercapacitors. Materials Technology, 2022, 37, 2188-2193.	1.5	3
12	The ablation and mechanical behaviors of C/(SiC-ZrC)n multi-layer structure matrix composites by chemical vapor infiltration. Journal of the European Ceramic Society, 2022, 42, 4133-4143.	2.8	12
13	The influence of heat treatment on the ablation behavior of the C/Cx-SiCy composites tested by thin-blade under oxyacetylene torch. Ceramics International, 2022, , .	2.3	1
14	Surface engineering of MOFs-derived Co₃O₄nanosheets for high-performance supercapacitor. Materials Technology, 2022, 37, 2976-2982.	1.5	3
15	NiCoLDH nanosheets grown on MOF-derived Co3O4 triangle nanosheet arrays for high-performance supercapacitor. Journal of Materials Science and Technology, 2021, 62, 60-69.	5.6	73
16	Large-scale synthesis of SiC/PyC core-shell structure nanowires via chemical liquid-vapor deposition. Ceramics International, 2021, 47, 500-509.	2.3	11
17	Hierarchical, seamless, edge-rich nanocarbon hybrid foams for highly efficient electromagnetic-interference shielding. Journal of Materials Science and Technology, 2021, 72, 154-161.	5.6	45
18	Construction of multi-structures based on Cu NWs-supported MOF-derived Co oxides for asymmetric pseudocapacitors. Journal of Materials Science and Technology, 2021, 65, 182-189.	5.6	25

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19	Integrative improvement on thermophysical properties and ablation resistance of laminated carbon/carbon composites modified by in situ grown HfC nanowires onto carbon fiber cloths. Journal of the European Ceramic Society, 2021, 41, 73-83.	2.8	17
20	Hierarchical self-supporting sugar gourd-shape MOF-derived NiCo2O4 hollow nanocages@SiC nanowires for high-performance flexible hybrid supercapacitors. Journal of Colloid and Interface Science, 2021, 586, 219-232.	5.0	54
21	Cu/Co mixed hierarchical tubular heterostructures for alkaline supercapacitors. Journal of Materiomics, 2021, 7, 640-647.	2.8	6
22	Effects of PyC shell thickness on the microstructure, ablation resistance of SiCnws/PyC-C/C-ZrC-SiC composites. Journal of Materials Science and Technology, 2021, 71, 55-66.	5.6	47
23	High-Performance Multifunctional Carbonâ€“Silicon Carbide Composites with Strengthened Reduced Graphene Oxide. ACS Nano, 2021, 15, 2880-2892.	7.3	44
24	Evaporation behavior of SiO₂ glass doped with various transition metal oxides. Journal of the American Ceramic Society, 2021, 104, 3130-3138.	1.9	21
25	All Si₃N₄ Nanowires Membrane Based Highâ€Performance Flexible Solidâ€State Asymmetric Supercapacitor. Small, 2021, 17, e2008056.	5.2	33
26	Ablation resistance of HfC-TaC/HfC-SiC alternate coating for SiC-coated carbon/carbon composites under cyclic ablation. Journal of the European Ceramic Society, 2021, 41, 3207-3218.	2.8	43
27	Templated synthesis of spinel cobaltite MCo2O4 (M=Ni, Co and Mn) hierarchical nanofibers for high performance supercapacitors. Journal of Materiomics, 2021, 7, 858-868.	2.8	16
28	Metal-organic framework derived hierarchical NiCo2O4 triangle nanosheet arrays@SiC nanowires network/carbon cloth for flexible hybrid supercapacitors. Journal of Materials Science and Technology, 2021, 81, 162-174.	5.6	35
29	Influence of carbon preform density on the microstructure and ablation resistance of CLVD-C/C-ZrC-SiC composites. Corrosion Science, 2021, 190, 109648.	3.0	31
30	Design and characterization of zirconium-based multilayer coating for carbon/carbon composites against oxyacetylene ablation. Corrosion Science, 2021, 192, 109785.	3.0	18
31	Preparation and ablation properties of SiC nanowire-reinforced ZrCâ€“SiC coating-matrix integrated C/C composites. Ceramics International, 2021, 47, 31251-31258.	2.3	11
32	Epitaxial Grown Carbon Nanotubes Reinforced Pyrocarbon Matrix in C/C Composites with Improved Mechanical Properties. Materials, 2021, 14, 6607.	1.3	3
33	Lightweight and flexible 3D graphene microtubes membrane for high-efficiency electromagnetic-interference shielding. Chemical Engineering Journal, 2020, 387, 124025.	6.6	76
34	Orthogonally structured graphene nanointerface for lightweight SiC nanowire-based nanocomposites with enhanced mechanical and electromagnetic-interference shielding properties. Composites Part B: Engineering, 2020, 202, 108381.	5.9	16
35	NiCo2O4 nanosheets sheathed SiC@CNTs core-shell nanowires for high-performance flexible hybrid supercapacitors. Journal of Colloid and Interface Science, 2020, 577, 481-493.	5.0	46
36	Graphene and MXene Nanomaterials: Toward Highâ€Performance Electromagnetic Wave Absorption in Gigahertz Band Range. Advanced Functional Materials, 2020, 30, 2000475.	7.8	356

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37	Dependence of mechanical properties on microstructure of high-textured pyrocarbon prepared via isothermal and thermal gradient chemical vapor infiltration. Composites Part B: Engineering, 2020, 192, 107982.	5.9	28
38	Awlâ€like HfC nanowires grown on carbon cloth via Feâ€catalyzed in a polymer pyrolysis route. Journal of the American Ceramic Society, 2020, 103, 3458-3465.	1.9	11
39	Fabrication and properties of carbon fiber-Si3N4 nanowires-hydroxyapatite/phenolic resin composites for biological applications. Ceramics International, 2020, 46, 16397-16404.	2.3	13
40	Effect of free silicon content in inner SiC-Si coating on thermal cyclic ablation behaviour and microstructure of ZrC/SiC-Si coating. Surface and Coatings Technology, 2020, 393, 125775.	2.2	9
41	Hierarchical core-shell structure of NiCo2O4 nanosheets@HfC nanowires networks for high performance flexible solid-state hybrid supercapacitor. Chemical Engineering Journal, 2020, 392, 124820.	6.6	104
42	General formation of Prussian blue analogue microtubes for high-performance Na-ion hybrid supercapacitors. Science China Materials, 2020, 63, 739-747.	3.5	33
43	Cu nanowires paper interlinked with cobalt oxide films for enhanced sensing and energy storage. Chemical Communications, 2019, 55, 9031-9034.	2.2	18
44	Microstructure, mechanical and anti-ablation properties of SiCnw/PyC core-shell networks reinforced C/Câ€“ZrCâ€“SiC composites fabricated by a multistep method of chemical liquid-vapor deposition. Ceramics International, 2019, 45, 20414-20426.	2.3	22
45	Selective growth of SiC nanowires in interlaminar matrix for improving in-plane strengths of laminated Carbon/Carbon composites. Journal of Materials Science and Technology, 2019, 35, 2799-2808.	5.6	20
46	Effects of precursor feeding rate on the microstructure and ablation resistance of gradient C/C ZrC SiC composites prepared by chemical liquid-vapor deposition. Vacuum, 2019, 164, 265-277.	1.6	14
47	Microstructure and ablation property of gradient ZrC SiC modified C/C composites prepared by chemical liquid vapor deposition. Ceramics International, 2019, 45, 13283-13296.	2.3	15
48	Effect of stretching on the initial oxidation of 3C-SiC nanowire by first-principle simulation. Applied Surface Science, 2019, 483, 170-177.	3.1	5
49	Microstructure and ablation property of C/C-ZrC-SiC composites fabricated by chemical liquid-vapor deposition combined with precursor infiltration and pyrolysis. Ceramics International, 2019, 45, 3767-3781.	2.3	20
50	Conversion of methane to benzene in CVI by density functional theory study. Scientific Reports, 2019, 9, 19496.	1.6	6
51	Direct Growth of Edgeâ€Rich Graphene with Tunable Dielectric Properties in Porous Si₃N₄ Ceramic for Broadband Highâ€Performance Microwave Absorption. Advanced Functional Materials, 2018, 28, 1707205.	7.8	425
52	Coral-like Cu-Co-mixed oxide for stable electro-properties of glucose determination. Electrochimica Acta, 2018, 273, 502-510.	2.6	32
53	Densification behavior and ablation property of C/C-ZrC composites prepared by chemical liquid vapor deposition process at temperatures from 800 to 1100â€Â°C. Ceramics International, 2018, 44, 7991-8004.	2.3	16
54	Effect of Zr doping on the high-temperature stability of SiO2 glass. Computational Materials Science, 2018, 147, 81-86.	1.4	27

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55	Stable controlled growth of 3D CuO/Cu nanoflowers by surfactant-free method for non-enzymatic hydrogen peroxide detection. Journal of Materials Science and Technology, 2018, 34, 1692-1698.	5.6	16
56	Simultaneously improving the mechanical strength and electromagnetic interference shielding of carbon/carbon composites by electrophoretic deposition of SiC nanowires. Journal of Materials Chemistry C, 2018, 6, 5888-5899.	2.7	46
57	Effect of Al2O3 on the densification and oxidation behavior of SiC coating for carbon/carbon composites. Ceramics International, 2018, 44, 12702-12708.	2.3	14
58	Effects of pyrocarbon on morphology stability of SiC nanowires at high temperatures. Journal of the American Ceramic Society, 2018, 101, 3694-3702.	1.9	35
59	Realizing the synergy of carbon nanotubes and matrix microstructure for improved flexural behavior of laminated carbon/carbon composites. Journal of Alloys and Compounds, 2018, 738, 49-55.	2.8	28
60	3C-SiC Nanowires In-Situ Modified Carbon/Carbon Composites and Their Effect on Mechanical and Thermal Properties. Nanomaterials, 2018, 8, 894.	1.9	14
61	Vertically Grown Edgeâ€Rich Graphene Nanosheets for Spatial Control of Li Nucleation. Advanced Energy Materials, 2018, 8, 1800564.	10.2	145
62	Preparation and characterization of implanted Fe catalyst in hydroxyapatite layer for uniformly dispersion carbon nanotube growth. Applied Surface Science, 2018, 455, 75-83.	3.1	12
63	High temperature oxidation resistance of La2O3-modified ZrB2-SiC coating for SiC-coated carbon/carbon composites. Journal of Alloys and Compounds, 2018, 765, 37-45.	2.8	30
64	A SiCnw/PyC -toughened ZrB2-SiC coating for protecting Si-SiC coated C/C composites against oxidation. Applied Surface Science, 2018, 457, 360-366.	3.1	39
65	Self-Templating Synthesis of Cobalt Hexacyanoferrate Hollow Structures with Superior Performance for Na-Ion Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 29496-29504.	4.0	87
66	Synthesis of SiC nanonecklaces via chemical vapor deposition in the presence of a catalyst. CrystEngComm, 2017, 19, 952-957.	1.3	12
67	High-aspect-ratio HfC nanobelts accompanied by HfC nanowires: Synthesis, characterization and field emission properties. Applied Surface Science, 2017, 402, 344-351.	3.1	14
68	Effect of ZrC particle size on the ablation resistance of C/C-ZrC-SiC composites. Materials and Design, 2017, 129, 15-25.	3.3	48
69	In simulated body fluid performance of polymorphic apatite coatings synthesized by pulsed electrodeposition. Materials Science and Engineering C, 2017, 79, 100-107.	3.8	18
70	Carbon Nanotubeâ€“Multilayered Graphene Edge Plane Coreâ€“Shell Hybrid Foams for Ultrahighâ€Performance Electromagneticâ€Interference Shielding. Advanced Materials, 2017, 29, 1701583.	11.1	560
71	Cation exchange formation of prussian blue analogue submicroboxes for high-performance Na-ion hybrid supercapacitors. Nano Energy, 2017, 39, 647-653.	8.2	204
72	3D CuO nanosheet wrapped nanofilm grown on Cu foil for high-performance non-enzymatic glucose biosensor electrode. Talanta, 2017, 174, 514-520.	2.9	59

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73	Mechanical and electromagnetic shielding performance of carbon fiber reinforced multilayered (PyC-SiC)n matrix composites. Carbon, 2017, 111, 299-308.	5.4	100
74	Influence of Î²-SiC on the microstructures and thermal properties of SiC coatings for C/C composites. Surface and Coatings Technology, 2016, 304, 188-194.	2.2	40
75	Micro-oxidation treatment to improve bonding strength of Sr and Na co-substituted hydroxyapatite coatings for carbon/carbon composites. Applied Surface Science, 2016, 378, 136-141.	3.1	25
76	SiC/ZrB2â€“SiCâ€“ZrC multilayer coating for carbon/carbon composites against ablation. Surface and Coatings Technology, 2016, 300, 1-9.	2.2	67
77	Mechanical and oxidation protective properties of SiC nanowires-toughened SiC coating prepared in-situ by a CVD process on C/C composites. Surface and Coatings Technology, 2016, 307, 91-98.	2.2	52
78	Microstructure evolution of SiC-ZrB2-ZrC coating on C/C composites at 1773ÂK under different oxygen partial pressures. Journal of Alloys and Compounds, 2016, 687, 470-479.	2.8	13
79	Oxidation behavior and microstructure evolution of SiC-ZrB 2 -ZrC coating for C/C composites at 1673 K. Ceramics International, 2016, 42, 13041-13046.	2.3	24
80	Preparation of co-deposited C/C-ZrC composites by CLVD process and its properties. Journal of Alloys and Compounds, 2016, 686, 823-830.	2.8	20
81	Oxidation and ablation resistance of the ZrB2â€“CrSi2â€“Si/SiC coating for C/C composites at high temperature. Journal of Alloys and Compounds, 2016, 662, 302-307.	2.8	71
82	Three-dimensional carbon/carbon composites with vertically aligned carbon nanotubes: Providing direct and indirect reinforcements to the pyrocarbon matrix. Materials and Design, 2016, 92, 120-128.	3.3	36
83	Effects of high-temperature annealing on the microstructures and mechanical properties of C/Câ€“ZrCâ€“SiC composites prepared by precursor infiltration and pyrolysis. Materials and Design, 2016, 90, 373-378.	3.3	52
84	Ablation resistance of SiCâ€“HfCâ€“ZrC multiphase modified carbon/carbon composites. Corrosion Science, 2016, 103, 1-9.	3.0	57
85	Erosion resistance of Moâ€“Siâ€“Cr coating-modified C/C composites in a wind tunnel at 1873 K. Journal of Alloys and Compounds, 2015, 622, 1049-1054.	2.8	25
86	Influence of carbon nanotube extending length on pyrocarbon microstructure and mechanical behavior of carbon/carbon composites. Applied Surface Science, 2015, 355, 1020-1027.	3.1	30
87	A SiC-ZrB2-ZrC coating toughened by electrophoretically-deposited SiC nanowires to protect C/C composites against thermal shock and oxidation. Applied Surface Science, 2015, 349, 465-471.	3.1	80
88	Oxidation protection and behavior of in-situ zirconium diborideâ€“silicon carbide coating for carbon/carbon composites. Journal of Alloys and Compounds, 2015, 645, 164-170.	2.8	56
89	Effect of SiC Location on the Ablation of C/Câ€“SiC Composites in Two Heat Fluxes. Journal of Materials Science and Technology, 2015, 31, 345-354.	5.6	28
90	Oxidation protection of ultra-high temperature ceramic Zr Ta1â˜’B2â€“SiC/SiC coating prepared by in-situ reaction method for carbon/carbon composites. Journal of the European Ceramic Society, 2015, 35, 897-907.	2.8	37

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91	HfC nanowire-toughened TaSi 2 â€“TaCâ€“SiCâ€“Si multiphase coating for C/C composites against oxidation. Corrosion Science, 2015, 90, 554-561.	3.0	60
92	SiC Nanowires Toughed HfC Ablative Coating for C/C Composites. Journal of Materials Science and Technology, 2015, 31, 70-76.	5.6	35
93	Ablative and Mechanical Properties of C/Câ€“ZrC Composites Prepared byÂPrecursor Infiltration and Pyrolysis Process. Journal of Materials Science and Technology, 2015, 31, 77-82.	5.6	44
94	Preparation of oxidation protective Hf0.2Ta0.8B2â^'â€“SiC coating by in-situ reaction method on SiC-coated carbon/carbon composites. Journal of Alloys and Compounds, 2015, 618, 390-395.	2.8	22
95	Ferroceneâ€Catalyzed Growth of Singleâ€Crystalline 6Hâ€SiC Nanoribbons. Journal of the American Ceramic Society, 2014, 97, 3363-3366.	1.9	9
96	Adsorbed <scp><scp>O</scp></scp>₂ on the Graphiteâ€Induced Growth of Ultraâ€Long Singleâ€Crystalline 6<scp><scp>H</scp></scp>â€“<scp><scp>SiC</scp></scp> Nanowires. Journal of the American Ceramic Society, 2014, 97, 2379-2382.	1.9	10
97	Catalystâ€Assisted Growth of Singleâ€Crystalline Hafnium Carbide Nanotubes by Chemical Vapor Deposition. Journal of the American Ceramic Society, 2014, 97, 48-51.	1.9	11
98	Influence of SiC additive on the ablation behavior of C/C composites modified by ZrB2â€“ZrC particles under oxyacetylene torch. Ceramics International, 2014, 40, 541-549.	2.3	35
99	Oxidation protection of C/C composites by ultra long SiC nanowire-reinforced SiCâ€“Si coating. Corrosion Science, 2014, 84, 204-208.	3.0	49
100	Preparation of oxidation protective ZrB2â€“SiC coating by in-situ reaction method on SiC-coated carbon/carbon composites. Surface and Coatings Technology, 2014, 247, 61-67.	2.2	67
101	ZrB2â€“SiC gradient oxidation protective coating for carbon/carbon composites. Ceramics International, 2014, 40, 7171-7176.	2.3	89
102	Potential field emitters: HfC nanorods sheathed with a HfO2 nanoshell. CrystEngComm, 2014, 16, 3186.	1.3	9
103	Effect of SiC/ZrC ratio on the mechanical and ablation properties of C/Câ€“SiCâ€“ZrC composites. Corrosion Science, 2014, 82, 27-35.	3.0	112
104	SiC coating toughened by HfC nanowires to protect C/C composites against oxidation. Applied Surface Science, 2014, 311, 208-213.	3.1	54
105	Bamboo-shaped SiC nanowire-toughened SiC coating for oxidation protection of C/C composites. Corrosion Science, 2013, 70, 11-16.	3.0	57
106	Ablation in different heat fluxes of C/C composites modified by ZrB2â€“ZrC and ZrB2â€“ZrCâ€“SiC particles. Corrosion Science, 2013, 74, 159-167.	3.0	103
107	Microstructure and flexural properties of carbon/carbon composite with in-situ grown carbon nanotube as secondary reinforcement. Progress in Natural Science: Materials International, 2013, 23, 157-163.	1.8	22
108	Single-crystalline hafnium carbide nanowire growth below the eutectic temperature by CVD. Journal of Crystal Growth, 2013, 384, 44-49.	0.7	23

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109	Multi-layer CVD-SiC/MoSi2â€“CrSi2â€“Si/B-modified SiC oxidation protective coating for carbon/carbon composites. Vacuum, 2013, 96, 52-58.	1.6	17
110	Oxidation protection and behavior of C/C composites with an in situ SiC nanowireâ€“SiCâ€“Si/SiCâ€“Si coating. Corrosion Science, 2013, 70, 285-289.	3.0	57
111	Wear behavior of SiC nanowire-reinforced SiC coating for C/C composites at elevated temperatures. Journal of the European Ceramic Society, 2013, 33, 2961-2969.	2.8	35
112	Ablation behavior and mechanism of C/Câ€“ZrCâ€“SiC composites under an oxyacetylene torch at 3000Â°C. Ceramics International, 2013, 39, 4171-4178.	2.3	116
113	Oxidation protection of C/C composites with in situ bamboo-shaped SiC nanowire-toughened Siâ€“Cr coating. Corrosion Science, 2013, 74, 419-423.	3.0	36
114	X-ray diffraction and raman spectroscopy characterization of isotropic pyrocarbon obtained by hot wall chemical vapor deposition. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 358-361.	0.4	1
115	Toughening by <scp><scp>SiC</scp></scp> Nanowires in a Dense <scp><scp>SiC</scp></scp>â€“<scp><scp>Si</scp></scp> Ceramic Coating for Oxidation Protection of <scp><scp>C</scp></scp>/<scp><scp>C</scp></scp> Composites. Journal of the American Ceramic Society, 2012, 95, 3691-3697.	1.9	63
116	Oxidation protection of SiC-coated C/C composites by SiC nanowire-toughened CrSi 2 â€“SiCâ€“Si coating. Corrosion Science, 2012, 55, 394-400.	3.0	57
117	Na-doped hydroxyapatite coating on carbon/carbon composites: Preparation, in vitro bioactivity and biocompatibility. Applied Surface Science, 2012, 263, 163-173.	3.1	57
118	Nano/microâ€sized calcium phosphate coating on carbon/carbon composites by ultrasonic assisted electrochemical deposition. Surface and Interface Analysis, 2012, 44, 21-28.	0.8	17
119	Oxidation protection of C/C composites with a multilayer coating of SiC and Si + SiC + SiC nanowires. Carbon, 2012, 50, 1280-1288.	5.4	116
120	A SiCâ€“Siâ€“ZrB2 multiphase oxidation protective ceramic coating for SiC-coated carbon/carbon composites. Ceramics International, 2012, 38, 2095-2100.	2.3	78
121	Preparation and ablation properties of ZrCâ€“SiC coating for carbon/carbon composites by solid phase infiltration. Applied Surface Science, 2011, 258, 565-571.	3.1	76
122	Influence of SiC nanowires on the properties of SiC coating for C/C composites between room temperature and 1500Â°C. Corrosion Science, 2011, 53, 3048-3053.	3.0	72
123	Electrochemically assisted co-deposition of calcium phosphate/collagen coatings on carbon/carbon composites. Applied Surface Science, 2011, 257, 3612-3619.	3.1	65
124	Microstructure and growth mechanism of SiC nanowires with periodically fluctuating hexagonal prisms by CVD. Journal of Alloys and Compounds, 2010, 508, L36-L39.	2.8	31