

Xijiang Han

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117
papers

9,775
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h-index

98
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125
ext. papers

11,665
ext. citations

7.3
avg, IF

6.5
L-index

#	Paper	IF	Citations
117	Shell thickness-dependent microwave absorption of core-shell Fe ₃ O ₄ @C composites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12997-3006	9.5	700
116	The electromagnetic property of chemically reduced graphene oxide and its application as microwave absorbing material. <i>Applied Physics Letters</i> , 2011 , 98, 072906	3.4	520
115	Rational design of core-shell Co@C microspheres for high-performance microwave absorption. <i>Carbon</i> , 2017 , 111, 722-732	10.4	493
114	Metal organic framework-derived Fe/C nanocubes toward efficient microwave absorption. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13426-13434	13	424
113	Constructing Uniform Core-Shell PPy@PANI Composites with Tunable Shell Thickness toward Enhancement in Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20090-9	9.5	343
112	Synthesis of electromagnetic functionalized nickel/polypyrrole core/shell composites. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10443-8	3.4	308
111	Graphitic-C(3)N(4)-hybridized TiO(2) nanosheets with reactive {001} facets to enhance the UV- and visible-light photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2014 , 268, 216-23	12.8	218
110	Rational design of yolk-shell C@C microspheres for the effective enhancement in microwave absorption. <i>Carbon</i> , 2016 , 98, 599-606	10.4	209
109	Morphology-Controlled Synthesis and Electromagnetic Properties of Porous Fe ₃ O ₄ Nanostructures from Iron Alkoxide Precursors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12350-12357	3.8	203
108	Controlled Synthesis and Morphology-Dependent Electromagnetic Properties of Hierarchical Cobalt Assemblies. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14826-14830	3.8	186
107	Controlled Synthesis of Hierarchical Nickel and Morphology-Dependent Electromagnetic Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3196-3203	3.8	186
106	Mechanistic understanding of surface plasmon assisted catalysis on a single particle: cyclic redox of 4-aminothiophenol. <i>Scientific Reports</i> , 2013 , 3, 2997	4.9	177
105	Electromagnetic functionalized Co/C composites by in situ pyrolysis of metal-organic frameworks (ZIF-67). <i>Journal of Alloys and Compounds</i> , 2016 , 681, 384-393	5.7	177
104	MOFs-Derived Hollow Co/C Microspheres with Enhanced Microwave Absorption Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8904-8913	8.3	170
103	The electromagnetic properties and microwave absorption of mesoporous carbon. <i>Materials Chemistry and Physics</i> , 2012 , 135, 884-891	4.4	164
102	Prussian blue analogues derived magnetic FeCo alloy/carbon composites with tunable chemical composition and enhanced microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 10-20	9.3	162
101	Core-shell FeCo@carbon nanoparticles encapsulated in polydopamine-derived carbon nanocages for efficient microwave absorption. <i>Carbon</i> , 2019 , 145, 701-711	10.4	159

100	Multifunctional polymer-metal nanocomposites via direct chemical reduction by conjugated polymers. <i>Chemical Society Reviews</i> , 2014 , 43, 1349-60	58.5	159
99	Pea-like Fe/FeC Nanoparticles Embedded in Nitrogen-Doped Carbon Nanotubes with Tunable Dielectric/Magnetic Loss and Efficient Electromagnetic Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4268-4277	9.5	158
98	Prussian blue analogues derived porous nitrogen-doped carbon microspheres as high-performance metal-free peroxydisulfate activators for non-radical-dominated degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 884-895	13	157
97	Synthesis and Magnetic Properties of BaFe ₁₂ O ₁₉ Hexaferrite Nanoparticles by a Reverse Microemulsion Technique. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5866-5870	3.8	156
96	S, N Dual-Doped Graphene-like Carbon Nanosheets as Efficient Oxygen Reduction Reaction Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 398-405	9.5	148
95	Laser wavelength- and power-dependent plasmon-driven chemical reactions monitored using single particle surface enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2013 , 49, 3389-91	5.8	146
94	Synthesis and Characterization of Novel Coraloid Polyaniline/BaFe ₁₂ O ₁₉ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12603-12608	3.8	146
93	Synthesis of electromagnetic functionalized Fe ₃ O ₄ microspheres/polyaniline composites by two-step oxidative polymerization. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9523-31	3.4	142
92	Waxberry-like hierarchical Ni@C microspheres with high-performance microwave absorption. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5037-5046	7.1	127
91	Microwave absorption enhancement of Fe ₃ O ₄ /polyaniline core/shell hybrid microspheres with controlled shell thickness. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 1909-1916	2.9	118
90	Recent Advances in Plasmonic Nanostructures for Enhanced Photocatalysis and Electrocatalysis. <i>Advanced Materials</i> , 2021 , 33, e2000086	24	112
89	Interfacially Engineered Sandwich-Like rGO/Carbon Microspheres/rGO Composite as an Efficient and Durable Microwave Absorber. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500684	4.6	107
88	Synthesis and characterization of polyaniline nanoparticles with enhanced microwave absorption. <i>RSC Advances</i> , 2013 , 3, 12694	3.7	105
87	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production on CdS/CuS/g-CN Ternary Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20404-20411	9.5	104
86	Synthesis of electromagnetic functionalized barium ferrite nanoparticles embedded in polypyrrole. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2775-81	3.4	102
85	Acid-directed synthesis of SERS-active hierarchical assemblies of silver nanostructures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2495-2501		100
84	Surfactant-Assisted Solvothermal Synthesis of Ba(CoTi) _x Fe _{12-2x} O ₁₉ Nanoparticles and Enhancement in Microwave Absorption Properties of Polyaniline. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19600-19606	3.8	94
83	Highly sensitive surface-enhanced Raman spectroscopy (SERS) platforms based on silver nanostructures fabricated on polyaniline membrane surfaces. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2752-6	9.5	91

82	MOFs-derived multi-chamber carbon microspheres with enhanced microwave absorption. <i>Carbon</i> , 2020 , 157, 478-485	10.4	89
81	Effect of phase composition, morphology, and specific surface area on the photocatalytic activity of TiO ₂ nanomaterials. <i>RSC Advances</i> , 2014 , 4, 47031-47038	3.7	88
80	Synthesis of pomegranate-like Mo ₂ C@C nanospheres for highly efficient microwave absorption. <i>Chemical Engineering Journal</i> , 2019 , 372, 312-320	14.7	85
79	Nitrogen, phosphorus, and sulfur tri-doped hollow carbon shells derived from ZIF-67@poly (cyclotriphosphazene-co-4, 4'-sulfonyldiphenol) as a robust catalyst of peroxymonosulfate activation for degradation of bisphenol A. <i>Carbon</i> , 2018 , 137, 291-303	10.4	76
78	Bifunctional Nitrogen-Doped Microporous Carbon Microspheres Derived from Poly(o-methylaniline) for Oxygen Reduction and Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3601-8	9.5	75
77	Facile fabrication of homogeneous 3D silver nanostructures on gold-supported polyaniline membranes as promising SERS substrates. <i>Langmuir</i> , 2010 , 26, 8882-6	4	75
76	Facile synthesis of 3D flower-like Ni microspheres with enhanced microwave absorption properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9615-9623	7.1	74
75	How to Reliably Report the Overpotential of an Electrocatalyst. <i>ACS Energy Letters</i> , 2020 , 5, 1083-1087	20.1	70
74	Recent Advances in Conjugated Polymer-Based Microwave Absorbing Materials. <i>Polymers</i> , 2017 , 9,	4.5	68
73	Heterogeneous Interface Induced the Formation of Hierarchically Hollow Carbon Microcubes against Electromagnetic Pollution. <i>Small</i> , 2020 , 16, e2003407	11	68
72	Synthesis and microwave absorption enhancement of yolk-shell Fe ₃ O ₄ @C microspheres. <i>Journal of Materials Science</i> , 2017 , 52, 6349-6361	4.3	66
71	Metal-Organic Frameworks Derived Interconnected Bimetallic Metaphosphate Nanoarrays for Efficient Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2020 , 30, 1910498	15.6	60
70	Preparation and microwave absorption properties of NiB alloy-coated Fe ₃ O ₄ particles. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 352-356	5.7	60
69	Ultrasmall Mo ₂ C Nanoparticle-Decorated Carbon Polyhedrons for Enhanced Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5366-5376	5.6	60
68	Space-Confined Synthesis of Core-Shell BaTiO ₃ @Carbon Microspheres as a High-Performance Binary Dielectric System for Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31182-31190	9.5	58
67	Rational design and synthesis of SnO ₂ -encapsulated Fe ₂ O ₃ nanocubes as a robust and stable photo-Fenton catalyst. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 23-33	21.8	54
66	In Situ Surface-Enhanced Raman Spectroscopy Study of Plasmon-Driven Catalytic Reactions of 4-Nitrothiophenol under a Controlled Atmosphere. <i>ChemCatChem</i> , 2015 , 7, 1004-1010	5.2	53
65	Amino Acid-Assisted Synthesis of Hierarchical Silver Microspheres for Single Particle Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10007-10012	3.8	53

64	Solvent-Free Synthesis of Ultrafine Tungsten Carbide Nanoparticles-Decorated Carbon Nanosheets for Microwave Absorption. <i>Nano-Micro Letters</i> , 2020 , 12, 153	19.5	53
63	Reduced graphene oxide decorated with carbon nanopolyhedrons as an efficient and lightweight microwave absorber. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 174-183	9.3	53
62	FeCo alloy nanoparticles supported on ordered mesoporous carbon for enhanced microwave absorption. <i>Journal of Materials Science</i> , 2017 , 52, 13636-13649	4.3	52
61	Ultrasmall MnO Nanoparticles Supported on Nitrogen-Doped Carbon Nanotubes as Efficient Anode Materials for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38401-38408	9.5	51
60	Rationally designed hierarchical N-doped carbon nanotubes wrapping waxberry-like Ni@C microspheres for efficient microwave absorption. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5086-5096	13	51
59	Facile Synthesis of Polyaniline-Polypyrrole Nanofibers for Application in Chemical Deposition of Metal Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1392-1397	4.8	49
58	Synthesis and characterization of Co ₈ N substituted barium ferrite particles by a reverse microemulsion technique. <i>Materials Research Bulletin</i> , 2011 , 46, 643-648	5.1	48
57	Synthesis of homogeneous silver nanosheet assemblies for surface enhanced Raman scattering applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7222		44
56	Fabrication of thorny Au nanostructures on polyaniline surfaces for sensitive surface-enhanced Raman spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 49-54	9.5	43
55	Effect of stoichiometry on the phase formation and magnetic properties of BaFe ₁₂ O ₁₉ nanoparticles by reverse micelle technique. <i>Materials Letters</i> , 2008 , 62, 1305-1308	3.3	43
54	Dual functions of glucose induced composition-controllable Co/C microspheres as high-performance microwave absorbing materials. <i>Carbon</i> , 2020 , 168, 404-414	10.4	42
53	Pure carbon microwave absorbers from anion-exchange resin pyrolysis. <i>Synthetic Metals</i> , 2010 , 160, 2191-2196	3.8	41
52	Field-assisted synthesis of SERS-active silver nanoparticles using conducting polymers. <i>Nanoscale</i> , 2010 , 2, 1436-40	7.7	39
51	Synthesis and characterization of nanostructured polypyrroles: Morphology-dependent electrochemical responses and chemical deposition of Au nanoparticles. <i>Polymer</i> , 2009 , 50, 2624-2629	3.9	39
50	Surface functionalization of carbonyl iron with aluminum phosphate coating toward enhanced anti-oxidative ability and microwave absorption properties. <i>Applied Surface Science</i> , 2018 , 427, 594-602	6.7	37
49	Facile Synthesis and Electrical Properties of Silver Wires through Chemical Reduction by Polyaniline. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22147-22154	3.8	37
48	Ultrafast Surface-Plasmon-Induced Photodimerization of p-Aminothiophenol on Ag/TiO ₂ Nanoarrays. <i>ChemCatChem</i> , 2016 , 8, 1819-1824	5.2	37
47	Conjugated polymer-mediated synthesis of sulfur- and nitrogen-doped carbon nanotubes as efficient anode materials for sodium ion batteries. <i>Nano Research</i> , 2018 , 11, 2573-2585	10	34

46	Template synthesis of nitrogen-doped carbon nanocages@encapsulated carbon nanobubbles as catalyst for activation of peroxymonosulfate. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1849-1860	6.8	33
45	Solvent-free synthesis of hexagonal barium ferrite (BaFe ₁₂ O ₁₉) particles. <i>Journal of Materials Science</i> , 2010 , 45, 2442-2448	4.3	32
44	A crystalline@amorphous Ni@Ni(OH) ₂ core@shell catalyst for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23323-23329	13	31
43	Heteroatom-Doped Carbon Nanostructures Derived from Conjugated Polymers for Energy Applications. <i>Polymers</i> , 2016 , 8,	4.5	31
42	γ-Irradiation induced one-step synthesis of electromagnetic functionalized reduced graphene oxide@Ni nanocomposites. <i>RSC Advances</i> , 2014 , 4, 30467-30470	3.7	30
41	Prussian Blue Microcrystals with Morphology Evolution as a High-Performance Photo-Fenton Catalyst for Degradation of Organic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1174-1184	9.5	28
40	Homogeneous Metal Nitrate Hydroxide Nanoarrays Grown on Nickel Foam for Efficient Electrocatalytic Oxygen Evolution. <i>Small</i> , 2018 , 14, e1803783	11	28
39	Precursor-directed synthesis of quasi-spherical barium ferrite particles with good dispersion and magnetic properties. <i>CrystEngComm</i> , 2013 , 15, 808-815	3.3	27
38	Ultrafine CoO nanoparticles as an efficient cocatalyst for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 15633-15640	7.7	25
37	Phenolic resin reinforcement: A new strategy for hollow NiCo@C microboxes against electromagnetic pollution. <i>Carbon</i> , 2021 , 174, 673-682	10.4	25
36	Precursor-directed synthesis of porous cobalt assemblies with tunable close-packed hexagonal and face-centered cubic phases for the effective enhancement in microwave absorption. <i>Journal of Materials Science</i> , 2017 , 52, 4399-4411	4.3	24
35	Preparation and electromagnetic properties of multiwalled carbon nanotubes/Ni composites by γ-Irradiation technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 167, 1-5	3.1	24
34	Composition Optimization and Microstructure Design in MOFs-Derived Magnetic Carbon-Based Microwave Absorbers: A Review. <i>Nano-Micro Letters</i> , 2021 , 13, 208	19.5	21
33	Differential shrinkage induced formation of yolk-shell carbon microspheres toward enhanced microwave absorption. <i>Applied Physics Letters</i> , 2017 , 111, 133103	3.4	20
32	Controlled growth of monocrystalline rutile nanoshuttles in anatase TiO ₂ particles under mild conditions. <i>CrystEngComm</i> , 2009 , 11, 564	3.3	20
31	Improved Interface Charge Transfer and Redistribution in CuO-CoOOH p-n Heterojunction Nanoarray Electrocatalyst for Enhanced Oxygen Evolution Reaction. <i>Advanced Science</i> , 2021 , 8, e2103314	13.6	20
30	Superhydrophobic Ag nanostructures on polyaniline membranes with strong SERS enhancement. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22867-73	3.6	17
29	Fast fabrication of homogeneous silver nanostructures on hydrazine treated polyaniline films for SERS applications. <i>CrystEngComm</i> , 2012 , 14, 4952	3.3	17

28	Field-Assisted Synthesis and Electromagnetic Properties of Aligned Magnetic Nanostructures by Irradiation Induced Reduction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21214-21218	3.8	17
27	Pearson's principle-inspired strategy for the synthesis of amorphous transition metal hydroxide hollow nanocubes for electrocatalytic oxygen evolution. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1523-1528	7.8	16
26	Soft-chemical method for fabrication of SnO-TiO ₂ nanocomposites with enhanced photocatalytic activity. <i>Journal of Materials Research</i> , 2013 , 28, 1862-1869	2.5	14
25	A review on recent advances in carbon-based dielectric system for microwave absorption. <i>Journal of Materials Science</i> , 2021 , 56, 10782-10811	4.3	14
24	Magnetic and dielectric properties of barium titanate-coated barium ferrite. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 560-565	5.7	13
23	Hollow transition metal hydroxide octahedral microcages for single particle surface-enhanced Raman spectroscopy. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2318-2324	6.8	12
22	Performance Vs Convenience of Magnetic Carbon-Metal Nanocomposites: A Low-Cost and Facile Citrate-Derived Strategy for FeCo Alloy/Carbon Composites with High-Performance Microwave Absorption. <i>Comments on Inorganic Chemistry</i> , 2017 , 37, 301-326	3.9	11
21	In situ Raman monitoring of [2+2] cycloaddition of pyridine substituted olefins induced by visible laser. <i>Chemical Communications</i> , 2014 , 50, 15631-3	5.8	11
20	Chemical deposition of Ag nanostructures on polypyrrole films as active SERS substrates. <i>RSC Advances</i> , 2014 , 4, 7202	3.7	11
19	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution. <i>Journal of Materials Chemistry A</i> ,	13	11
18	Polymer-bubbling for one-step synthesis of three-dimensional cobalt/carbon foams against electromagnetic pollution. <i>Journal of Materials Science and Technology</i> , 2021 , 93, 7-16	9.1	11
17	Fabrication of PPy Nanosphere/rGO Composites via a Facile Self-Assembly Strategy for Durable Microwave Absorption. <i>Polymers</i> , 2018 , 10,	4.5	10
16	Galvanic replacement mediated synthesis of rGO/Mn ₃ O ₄ /Pt nanocomposites for the oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 89124-89129	3.7	9
15	SERS-active silver nanoparticle assemblies on branched Cu ₂ O crystals through controlled galvanic replacement. <i>RSC Advances</i> , 2014 , 4, 53543-53546	3.7	9
14	Response to Comment on The electromagnetic property of chemically reduced graphene oxide and its application as microwave absorbing material [Appl. Phys. Lett. 100, 046101 (2012)]. <i>Applied Physics Letters</i> , 2012 , 100, 046102	3.4	9
13	Fabrication of H-TiO ₂ /CdS/Cu ₂ -xS Ternary Heterostructures for Enhanced Photocatalytic Hydrogen Production. <i>ChemistrySelect</i> , 2017 , 2, 2681-2686	1.8	8
12	Surfactant-free synthesis and electromagnetic properties of Co/NiB composite particles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 211-217	3.1	6
11	Interfacial synthesis of lollipop-like Au/polyaniline nanocomposites for catalytic applications. <i>RSC Advances</i> , 2016 , 6, 81983-81988	3.7	5

10	Cotton cloth supported tungsten carbide/carbon nanocomposites as a Janus film for solar driven interfacial water evaporation. <i>Journal of Materials Chemistry A</i> ,	13	5
9	Metal nanoparticle catalyzed cyclobutane cleavage reaction. <i>RSC Advances</i> , 2015 , 5, 100722-100724	3.7	4
8	Solvothermal Synthesis and Magnetic Properties of La-Substituted Barium Ferrite. <i>Chemistry Letters</i> , 2012 , 41, 209-211	1.7	4
7	Enhanced Photocatalytic Activity of Titanium Dioxide: Modification with Graphene Oxide and Reduced Graphene Oxide. <i>Chemistry Letters</i> , 2014 , 43, 871-873	1.7	3
6	In Situ Raman Monitoring of Silver(I)-Aided Laser-Driven Cleavage Reaction of Cyclobutane. <i>ChemPhysChem</i> , 2016 , 17, 46-50	3.2	3
5	TiO ₂ -loaded epoxy resin with improved electrical characteristics as promising insulating materials. <i>Plastics, Rubber and Composites</i> , 2020 , 49, 179-186	1.5	2
4	Fe ³⁺ -Exchanged Titanate Nanotubes: A New Kind of Highly Active Heterogeneous Catalyst for Friedel-Crafts Type Benzylation. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	2
3	High-efficient electromagnetic absorption and composites of carbon microspheres. <i>Journal of Applied Physics</i> , 2021 , 130, 230902	2.5	2
2	A review of recent advancements in Ni-related materials used for microwave absorption. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 473003	3	0
1	In situ SERS monitored photoactive yellow protein (PYP) chromophore model elimination, nano-catalyzed phenyl redox and 1,2 addition reactions. <i>RSC Advances</i> , 2016 , 6, 111144-111147	3.7	