

# Weixing Wang

## List of Publications by Year in descending order

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42  
papers

2,512  
citations

257101

24  
h-index

264894

42  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane Storage in Dry Water Gas Hydrates. <i>Journal of the American Chemical Society</i> , 2008, 130, 11608-11609.	6.6	303
2	Large-Scale and Controllable Synthesis of Graphene Quantum Dots from Rice Husk Biomass: A Comprehensive Utilization Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1434-1439.	4.0	236
3	Ultralong lifetime and efficient room temperature phosphorescent carbon dots through multi-confinement structure design. <i>Nature Communications</i> , 2020, 11, 5591.	5.8	202
4	Silica Nanoparticles and Frameworks from Rice Husk Biomass. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 977-981.	4.0	186
5	Gas Storage in "Dry Water" and "Dry Gel" Clathrates. <i>Langmuir</i> , 2010, 26, 3186-3193.	1.6	154
6	Methane Storage in a Hydrated Form as Promoted by Leucines for Possible Application to Natural Gas Transportation and Storage. <i>Energy Technology</i> , 2015, 3, 815-819.	1.8	139
7	Extraction of Lignocellulose and Synthesis of Porous Silica Nanoparticles from Rice Husks: A Comprehensive Utilization of Rice Husk Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 254-259.	3.2	135
8	Harvesting silica nanoparticles from rice husks. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6981-6990.	0.8	110
9	Graphene oxide-polythiophene derivative hybrid nanosheet for enhancing performance of supercapacitor. <i>Journal of Power Sources</i> , 2016, 306, 241-247.	4.0	103
10	CO <sub>2</sub> Hydrate Formation Promoted by a Natural Amino Acid <i>l</i> -Methionine for Possible Application to CO <sub>2</sub> Capture and Storage. <i>Energy Technology</i> , 2017, 5, 1195-1199.	1.8	99
11	Versatile Nanostructures from Rice Husk Biomass for Energy Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13722-13734.	7.2	81
12	Knitting hypercrosslinked conjugated microporous polymers with external crosslinker. <i>Polymer</i> , 2015, 70, 336-342.	1.8	77
13	One-Pot Facile Synthesis of Graphene Quantum Dots from Rice Husks for Fe <sup>3+</sup> Sensing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9144-9150.	1.8	73
14	Photoluminescent carbon quantum dot grafted silica nanoparticles directly synthesized from rice husk biomass. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4679-4689.	2.9	71
15	Synthesis of Gold Nanoparticles on Rice Husk Silica for Catalysis Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 5656-5663.	1.8	47
16	Reversible Methane Storage in a Polymer-Supported Semi-Clathrate Hydrate at Ambient Temperature and Pressure. <i>Chemistry of Materials</i> , 2009, 21, 3810-3815.	3.2	45
17	"Dry bases" <sup>TM</sup> : carbon dioxide capture using alkaline dry water. <i>Energy and Environmental Science</i> , 2014, 7, 1786-1791.	15.6	42
18	Aqueous phase preparation of graphene with low defect density and adjustable layers. <i>Chemical Communications</i> , 2013, 49, 10835.	2.2	41

#	ARTICLE	IF	CITATIONS
19	Gas storage in renewable bioclathrates. <i>Energy and Environmental Science</i> , 2013, 6, 105-107.	15.6	36
20	Methane hydrates with a high capacity and a high formation rate promoted by biosurfactants. <i>Chemical Communications</i> , 2012, 48, 11638.	2.2	33
21	Photoluminescent mesoporous carbon-doped silica from rice husks. <i>Materials Letters</i> , 2015, 142, 280-282.	1.3	28
22	Synthesis of silicon complexes from rice husk derived silica nanoparticles. <i>RSC Advances</i> , 2012, 2, 9036.	1.7	26
23	Luminescence Mechanism of Carbon-Incorporated Silica Nanoparticles Derived from Rice Husk Biomass. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 5906-5912.	1.8	26
24	Synthesis and evaluation of sulphonated acetone-formaldehyde resin applied as dispersant of coal-water slurry. <i>Energy Conversion and Management</i> , 2007, 48, 204-209.	4.4	25
25	Synthesis of green phosphors from highly active amorphous silica derived from rice husks. <i>Journal of Materials Science</i> , 2018, 53, 1824-1832.	1.7	23
26	Methane storage in tea clathrates. <i>Chemical Communications</i> , 2014, 50, 1244-1246.	2.2	21
27	Effective Capture of Carbon Dioxide Using Hydrated Sodium Carbonate Powders. <i>Materials</i> , 2018, 11, 183.	1.3	19
28	Hydrogen permeability of Pd-Ag membrane modules with porous stainless steel substrates. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1014-1026.	3.8	18
29	Synthesis and colour prediction of stable pigments from rice husk biomass. <i>Green Materials</i> , 2015, 3, 10-14.	1.1	16
30	Microencapsulation using an oil-in-water-in-air dry water emulsion™. <i>Chemical Communications</i> , 2011, 47, 8253.	2.2	13
31	Reaction/separation coupled equilibrium modeling of steam methane reforming in fluidized bed membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11798-11809.	3.8	12
32	Boric acid: the first effective inorganic promoter for methane hydrate formation under static conditions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4478-4481.	2.5	11
33	CO <sub>2</sub> Hydrate Formation Promoted by a Bio-friendly Amino Acid L-Isoleucine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 474, 052054.	0.2	11
34	Facile synthesis of photoluminescent mesoporous silica. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 815-818.	9.9	10
35	Vielfältige Nanostrukturen aus Reishus-Biomasse für Energieanwendungen. <i>Angewandte Chemie</i> , 2018, 130, 13914-13927.	1.6	8
36	Chinese herbs: treasure troves for the discovery of environmentally friendly promoters for methane hydrate formation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5947-5951.	2.5	8

#	ARTICLE	IF	CITATIONS
37	Design and Fabrication of Highly Photoluminescent Carbon-Incorporated Silica from Rice Husk Biomass. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 4688-4694.	1.8	7
38	Lignocellulose aerogel and amorphous silica nanoparticles from rice husks. <i>Journal of Leather Science and Engineering</i> , 2021, 3, .	2.7	6
39	Dry hydrated potassium carbonate for effective CO <sub>2</sub> capture. <i>Dalton Transactions</i> , 2020, 49, 3965-3969.	1.6	5
40	A Preliminary Study on Rice Husk Filled Polypropylene Composite. <i>Materials Research Society Symposia Proceedings</i> , 2000, 661, KK5.14.1.	0.1	3
41	A Highly Effective Inorganic Composite Promoter: Synergistic Effect of Boric Acid and Calcium Hydroxide in Promoting Methane Hydrate Formation under Static Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 3775-3780.	1.8	2
42	Methane Storage in Biosilica-Supported Semiclathrates at Ambient Temperature and Pressure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 301, 012033.	0.3	1