

# Weixing Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

2,512  
citations

257450  
24  
h-index

265206  
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. Journal of the American Chemical Society, 2008, 130, 11608-11609.  | 13.7 | 303       |
| 2  | Large-Scale and Controllable Synthesis of Graphene Quantum Dots from Rice Husk Biomass: A Comprehensive Utilization Strategy. ACS Applied Materials & Interfaces, 2016, 8, 1434-1439.                     | 8.0  | 236       |
| 3  | Ultralong lifetime and efficient room temperature phosphorescent carbon dots through multi-confinement structure design. Nature Communications, 2020, 11, 5591.   | 12.8 | 202       |
| 4  | Silica Nanoparticles and Frameworks from Rice Husk Biomass. ACS Applied Materials & Interfaces, 2012, 4, 977-981.   | 8.0  | 186       |
| 5  | Gas Storage in "Dry Water" and "Dry Gel" Clathrates. Langmuir, 2010, 26, 3186-3193.   | 3.5  | 154       |
| 6  | Methane Storage in a Hydrated Form as Promoted by Leucines for Possible Application to Natural Gas Transportation and Storage. Energy Technology, 2015, 3, 815-819.                                       | 3.8  | 139       |
| 7  | Extraction of Lignocellulose and Synthesis of Porous Silica Nanoparticles from Rice Husks: A Comprehensive Utilization of Rice Husk Biomass. ACS Sustainable Chemistry and Engineering, 2013, 1, 254-259. | 6.7  | 135       |
| 8  | Harvesting silica nanoparticles from rice husks. Journal of Nanoparticle Research, 2011, 13, 6981-6990.   | 1.9  | 110       |
| 9  | Graphene oxide-polythiophene derivative hybrid nanosheet for enhancing performance of supercapacitor. Journal of Power Sources, 2016, 306, 241-247.   | 7.8  | 103       |
| 10 | CO <sub>2</sub> Hydrate Formation Promoted by a Natural Amino Acid "Methionine" for Possible Application to CO <sub>2</sub> Capture and Storage. Energy Technology, 2017, 5, 1195-1199.                   | 3.8  | 99        |
| 11 | Versatile Nanostructures from Rice Husk Biomass for Energy Applications. Angewandte Chemie - International Edition, 2018, 57, 13722-13734.  | 13.8 | 81        |
| 12 | Knitting hypercrosslinked conjugated microporous polymers with external crosslinker. Polymer, 2015, 70, 336-342.  | 3.8  | 77        |
| 13 | One-Pot Facile Synthesis of Graphene Quantum Dots from Rice Husks for Fe <sup>3+</sup> Sensing. Industrial & Engineering Chemistry Research, 2018, 57, 9144-9150.   | 3.7  | 73        |
| 14 | Photoluminescent carbon quantum dot grafted silica nanoparticles directly synthesized from rice husk biomass. Journal of Materials Chemistry B, 2017, 5, 4679-4689.                                       | 5.8  | 71        |
| 15 | Synthesis of Gold Nanoparticles on Rice Husk Silica for Catalysis Applications. Industrial & Engineering Chemistry Research, 2015, 54, 5656-5663.   | 3.7  | 47        |
| 16 | Reversible Methane Storage in a Polymer-Supported Semi-Clathrate Hydrate at Ambient Temperature and Pressure. Chemistry of Materials, 2009, 21, 3810-3815.  | 6.7  | 45        |
| 17 | "Dry bases"™: carbon dioxide capture using alkaline dry water. Energy and Environmental Science, 2014, 7, 1786-1791.  | 30.8 | 42        |
| 18 | Aqueous phase preparation of graphene with low defect density and adjustable layers. Chemical Communications, 2013, 49, 10835.  | 4.1  | 41        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Gas storage in renewable bioclathrates. <i>Energy and Environmental Science</i> , 2013, 6, 105-107.  | 30.8 | 36        |
| 20 | Methane hydrates with a high capacity and a high formation rate promoted by biosurfactants. <i>Chemical Communications</i> , 2012, 48, 11638.  | 4.1  | 33        |
| 21 | Photoluminescent mesoporous carbon-doped silica from rice husks. <i>Materials Letters</i> , 2015, 142, 280-282.  | 2.6  | 28        |
| 22 | Synthesis of silicon complexes from rice husk derived silica nanoparticles. <i>RSC Advances</i> , 2012, 2, 9036.   | 3.6  | 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.         | 3.7  | 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.              | 9.2  | 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.                                     | 3.7  | 23        |
| 26 | Methane storage in tea clathrates. <i>Chemical Communications</i> , 2014, 50, 1244-1246.   | 4.1  | 21        |
| 27 | Effective Capture of Carbon Dioxide Using Hydrated Sodium Carbonate Powders. <i>Materials</i> , 2018, 11, 183.   | 2.9  | 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.                           | 7.1  | 18        |
| 29 | Synthesis and colour prediction of stable pigments from rice husk biomass. <i>Green Materials</i> , 2015, 3, 10-14.  | 2.1  | 16        |
| 30 | Microencapsulation using an oil-in-water-in-air "dry water emulsion"™. <i>Chemical Communications</i> , 2011, 47, 8253.  | 4.1  | 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. | 7.1  | 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.                      | 4.9  | 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.                 | 0.3  | 11        |
| 34 | Facile synthesis of photoluminescent mesoporous silica. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 815-818.  | 21.1 | 10        |
| 35 | Vielfältige Nanostrukturen aus Reishälsen-Biomasse für Energieanwendungen. <i>Angewandte Chemie</i> , 2018, 130, 13914-13927.  | 2.0  | 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.          | 4.9  | 8         |

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|----|---|-----|-----------|
| 37 | Design and Fabrication of Highly Photoluminescent Carbon-Incorporated Silica from Rice Husk Biomass. Industrial & Engineering Chemistry Research, 2019, 58, 4688-4694.  | 3.7 | 7         |
| 38 | Lignocellulose aerogel and amorphous silica nanoparticles from rice husks. Journal of Leather Science and Engineering, 2021, 3, .   | 6.0 | 6         |
| 39 | Dry hydrated potassium carbonate for effective CO <sub>2</sub> capture. Dalton Transactions, 2020, 49, 3965-3969.   | 3.3 | 5         |
| 40 | A Preliminary Study on Rice Husk Filled Polypropylene Composite. Materials Research Society Symposia Proceedings, 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. Industrial & Engineering Chemistry Research, 2022, 61, 3775-3780. | 3.7 | 2         |
| 42 | Methane Storage in Biosilica-Supported Semiclathrates at Ambient Temperature and Pressure. IOP Conference Series: Materials Science and Engineering, 2018, 301, 012033.   | 0.6 | 1         |