

# Zhiping Zhang

## List of Publications by Citations

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55  
papers

1,490  
citations

21  
h-index

37  
g-index

58  
ext. papers

1,628  
ext. citations

4.6  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
55	Temperature- and pH-dependent morphology and FT-IR analysis of magnesium carbonate hydrates. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 12969-73	3.4	182
54	Silica coated paper substrate for paper-spray analysis of therapeutic drugs in dried blood spots. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 931-8	7.8	167
53	Paper spray: a simple and efficient means of analysis of different contaminants in foodstuffs. <i>Analyst, The</i> , <b>2012</b> , 137, 2556-8	5	98
52	Template-Free Hydrothermal Synthesis of Novel Three-Dimensional Dendritic CdS Nanoarchitectures. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5984-5990	3.8	71
51	Analysis of Biological Samples Using Paper Spray Mass Spectrometry: An Investigation of Impacts by the Substrates, Solvents and Elution Methods. <i>Chromatographia</i> , <b>2013</b> , 76, 1339-1346	2.1	70
50	Facile Synthesis of Monodisperse Magnesium Oxide Microspheres via Seed-Induced Precipitation and Their Applications in High- Performance Liquid Chromatography. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2447-2454	15.6	59
49	A silica coated paper substrate: development and its application in paper spray mass spectrometry for rapid analysis of pesticides in milk. <i>Analyst, The</i> , <b>2015</b> , 140, 8048-56	5	56
48	Synthesis and Shape Evolution of Monodisperse Basic Magnesium Carbonate Microspheres. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 337-342	3.5	50
47	One-pot synthesis of highly efficient MgO for the removal of Congo red in aqueous solution. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6630-6637	13	46
46	Sub-ppt Mass Spectrometric Detection of Therapeutic Drugs in Complex Biological Matrixes Using Polystyrene-Microsphere-Coated Paper Spray. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 7988-7995	7.8	46
45	Microscale flower-like magnesium oxide for highly efficient photocatalytic degradation of organic dyes in aqueous solution.. <i>RSC Advances</i> , <b>2019</b> , 9, 7338-7348	3.7	45
44	Development and Application of Zirconia Coated Paper Substrate for High Sensitivity Analysis of Therapeutic Drugs in Dried Blood Spots. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7005-13	7.8	42
43	Facile preparation of paper substrates coated with different materials and their applications in paper spray mass spectrometry. <i>Analytical Methods</i> , <b>2015</b> , 7, 5381-5386	3.2	33
42	Coaxial ion trap mass spectrometer: concentric toroidal and quadrupolar trapping regions. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5578-84	7.8	33
41	Performance of a halo ion trap mass analyzer with exit slits for axial ejection. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 369-78	3.5	33
40	Metal-organic framework coated paper substrates for paper spray mass spectrometry. <i>Analytical Methods</i> , <b>2016</b> , 8, 8004-8014	3.2	32
39	Distribution patterns of PCDD/Fs in chlorinated chemicals. <i>Chemosphere</i> , <b>2005</b> , 60, 779-84	8.4	31

38	Calcination temperature-dependent surface structure and physicochemical properties of magnesium oxide. <i>RSC Advances</i> , <b>2015</b> , 5, 86102-86112	3.7	26
37	Effects of higher-order multipoles on the performance of a two-plate quadrupole ion trap mass analyzer. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 299, 151-157	1.9	26
36	Observation of replacement of carbon in benzene with nitrogen in a low-temperature plasma. <i>Scientific Reports</i> , <b>2013</b> , 3, 3481	4.9	23
35	Paul trap mass analyzer consisting of opposing microfabricated electrode plates. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5241-8	7.8	23
34	Metabolite profiling of Arabidopsis seedlings in response to exogenous sinalbin and sulfur deficiency. <i>Phytochemistry</i> , <b>2011</b> , 72, 1767-78	4	21
33	Enrichment of polycyclic aromatic hydrocarbons in seawater with magnesium oxide microspheres as a solid-phase extraction sorbent. <i>Analytica Chimica Acta</i> , <b>2010</b> , 678, 183-8	6.6	21
32	Ambient Ionization-Paper Spray Ionization and Its Application. <i>Chinese Journal of Analytical Chemistry</i> , <b>2014</b> , 42, 145-152	1.6	17
31	Polystyrene-impregnated paper substrates for direct mass spectrometric analysis of proteins and peptides in complex matrices. <i>Analytical Methods</i> , <b>2018</b> , 10, 2803-2811	3.2	16
30	Controlled synthesis of mesocrystal magnesium oxide parallelogram and its catalytic performance. <i>CrystEngComm</i> , <b>2015</b> , 17, 2642-2650	3.3	15
29	The difference between specularly coefficient of 1 and no-slip solid phase wall boundary conditions in CFD simulation of gas/solid fluidized beds. <i>Powder Technology</i> , <b>2015</b> , 286, 740-743	5.2	15
28	Characterization of the surface properties of MgO using paper spray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30 Suppl 1, 217-25	2.2	15
27	Magnesium oxide microspheres as a packing material for the separation of basic compounds in normal-phase liquid chromatography. <i>Journal of Chromatography A</i> , <b>2007</b> , 1165, 116-21	4.5	15
26	Heterogeneous synthesis of glycerol carbonate from glycerol and dimethyl carbonate catalyzed by LiCl/CaO. <i>Journal of Saudi Chemical Society</i> , <b>2019</b> , 23, 494-502	4.3	14
25	Development of paper substrate for paper spray MS in high-sensitivity analysis of biological samples. <i>Bioanalysis</i> , <b>2018</b> , 10, 2047-2067	2.1	14
24	Development of a trapezoidal MgO catalyst for highly-efficient transesterification of glycerol and dimethyl carbonate. <i>CrystEngComm</i> , <b>2018</b> , 20, 4090-4098	3.3	14
23	Multipole expansion in quadrupolar devices comprised of planar electrode arrays. <i>International Journal of Mass Spectrometry</i> , <b>2010</b> , 295, 153-158	1.9	13
22	Morphological and surface structural evolutions of MgO particles from parallelograms to rods. <i>CrystEngComm</i> , <b>2016</b> , 18, 2612-2616	3.3	11
21	Characterization of the surface properties of Mg/Al oxides by the solvation parameter model. <i>Journal of Chromatography A</i> , <b>2006</b> , 1115, 58-63	4.5	10

20	Surface modification of spherical magnesium oxide with ethylene glycol. <i>Materials Letters</i> , <b>2009</b> , 63, 1514-1516	3.3	9
19	Magnesium oxide microspheres as a novel solid-phase extraction sorbent for the determination of benzo[a]pyrene in environmental water samples. <i>Journal of Separation Science</i> , <b>2010</b> , 33, 1836-41	3.4	9
18	Mass spectral study of storage conditions and paper substrates on the degradation and analytical sensitivity of therapeutic drugs in dried blood spots. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 387, 38-44	1.9	8
17	Study of Adsorption and Desorption Performances of Zr-Based Metal-Organic Frameworks Using Paper Spray Mass Spectrometry. <i>Materials</i> , <b>2017</b> , 10,	3.5	8
16	Elucidating the Reaction Mechanisms between Triazine and Hydrogen Sulfide with pH Variation Using Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11138-11145	7.8	7
15	The selective cleanup of complex matrices and simultaneous separation of benzo[a]pyrene by solid-phase extraction with MgO microspheres as sorbents. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 9149-54	4.5	7
14	Catalyst Coated Paper Substrate Strategy: Development and Its Application for Copper-Catalysts Screening and Activity Studies. <i>ChemistrySelect</i> , <b>2016</b> , 1, 3297-3305	1.8	6
13	Analyte migration electrospray ionization for rapid analysis of complex samples with small volume using mass spectrometry. <i>Analyst, The</i> , <b>2014</b> , 139, 5678-81	5	6
12	Preparation, characterization and application of octadecyl modified magnesium oxide microspheres. <i>Analytica Chimica Acta</i> , <b>2011</b> , 693, 54-61	6.6	6
11	Shape evolution of parallelogrammic magnesium oxalate controlled by phosphate species. <i>RSC Advances</i> , <b>2015</b> , 5, 63034-63043	3.7	5
10	Mg <sub>0.8</sub> Zn <sub>0.2</sub> O microspheres: preparation, characterization and application for degrading organic dyes. <i>CrystEngComm</i> , <b>2020</b> , 22, 1273-1285	3.3	5
9	Abnormal adsorption and desorption behavior of pharmaceutical drugs on polystyrene microspheres. <i>RSC Advances</i> , <b>2017</b> , 7, 19639-19644	3.7	4
8	Paper spray mass spectrometry for discriminating the quality of commercial gasolines. <i>Analytical Methods</i> , <b>2020</b> , 12, 1926-1934	3.2	2
7	Metal salt assisted electrospray ionization mass spectrometry for the soft ionization of GAP polymers in negative ion mode. <i>Analyst, The</i> , <b>2019</b> , 145, 34-45	5	1
6	Effect of sampling modes on the discrimination of commercial gasolines using direct analysis in real time mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2021</b> , 463, 116568	1.9	1
5	Paper-based filter membrane for high-efficient sampling and direct mass spectrometric analysis of siloxanes in outdoor air. <i>Atmospheric Environment</i> , <b>2021</b> , 254, 118427	5.3	1
4	Matrix-assisted nanoelectrospray mass spectrometry for soft ionization of metal(i)-protein complexes. <i>Analyst, The</i> , <b>2020</b> , 145, 1646-1656	5	
3	Direct Hydroxylation of Benzene to Phenol by Dielectric Barrier Discharge Plasma. <i>Russian Journal of Physical Chemistry A</i> , <b>2019</b> , 93, 2812-2816	0.7	

- 2 Influence and its mechanism of temperature variation in a muffle furnace during calcination on the adsorption performance of rod-like MgO to Congo red. *Frontiers of Materials Science*, **2018**, 12, 304-321 2.5
- 1 Water coordinated on Cu(I)-based catalysts is the oxygen source in CO reduction to CO<sub>2</sub>. *Nature Communications*, **2022**, 13, 2577 17.4