

## Most Cited Articles

Most Cited articles are updated on a monthly basis and available as Last 3 Years and All Time lists. Citation data is made available by participants in CrossRef's Cited-by Linking service. For a more comprehensive list of citations, users are encouraged to perform a search in SciFinder.

Below are the Top 20 Most Cited articles for the journal that were published within the Last 3 Years.

Choose a timeframe:



Select All For Selected:

**High Uptakes of CO<sub>2</sub> and CH<sub>4</sub> in Mesoporous Metal–Organic Frameworks MIL-100 and MIL-101**  **Organic Frameworks MIL-100 and MIL-101** [Abstract](#) | [Supporting Info](#)

Philip L. Llewellyn, Sandrine Bourrelly, Christian Serre, Alexandre Vimont, Marco Daturi, Lomig Hamon, Guy De Weireld, Jong-San Chang, Do-Young Hong, Young Kyu Hwang, Sung Hwa Jung and Gérard Férey

2008, 24 (14), pp 7245-7250  
Publication Date (Web): March 21, 2008 (Research Article)  
DOI: 10.1021/la800227x

[Full Text HTML](#)  
[Hi-Res PDF \[776K\]](#)  
[PDF w/ Links \[218K\]](#)  
[Subscriber Access](#)

**Separation of CO<sub>2</sub> from CH<sub>4</sub> Using Mixed-Ligand Metal–Organic Frameworks** [Abstract](#) | [Supporting Info](#)

Youn-Sang Bae, Karen L. Mulfort, Houston Frost, Patrick Ryan, Sudeep Punnathanam, Linda J. Broadbelt, Joseph T. Hupp and Randall Q. Snurr

2008, 24 (16), pp 8592-8598  
Publication Date (Web): July 11, 2008 (Research Article)  
DOI: 10.1021/la800555x

[Full Text HTML](#)  
[Hi-Res PDF \[1482K\]](#)  
[PDF w/ Links \[359K\]](#)  
[Subscriber Access](#)

**Graphene Oxide Dispersions in Organic Solvents** [Abstract](#)

J. I. Paredes, S. Villar-Rodil, A. Martínez-Alonso and J. M. D. Tascón

2008, 24 (19), pp 10560-10564  
Publication Date (Web): August 29, 2008 (Letter)  
DOI: 10.1021/la801744a

[Full Text HTML](#)  
[Hi-Res PDF \[1135K\]](#)  
[PDF w/ Links \[271K\]](#)  
[Subscriber Access](#)

**Gold Nanoparticles: Past, Present, and Future** [Abstract](#)

Rajesh Sardar, Alison M. Funston, Paul Mulvaney and Royce W. Murray

2009, 25 (24), pp 13840-13851  
Publication Date (Web): July 2, 2009 (Perspective)  
DOI: 10.1021/la9019475





[Full Text HTML](#)  
[Hi-Res PDF \[3800K\]](#)  
[PDF w/ Links \[1169K\]](#)  
[Subscriber Access](#)





**Molecular Screening of Metal–Organic Frameworks for CO<sub>2</sub> Storage** [Abstract](#) | [Supporting Info](#)





Ravichandar Babarao and Jianwen Jiang





2008, 24 (12), pp 6270-6278  
Publication Date (Web): May 17, 2008 (Research Article)  
DOI: 10.1021/la800369s





[Full Text HTML](#)  
[Hi-Res PDF \[967K\]](#)  
[PDF w/ Links \[345K\]](#)  
[Subscriber Access](#)





- Shape- and Size-Dependent Refractive Index Sensitivity of Gold Nanoparticles** [Abstract](#) | [Supporting Info](#)  
Huanjun Chen, Xiaoshan Kou, Zhi Yang, Weihai Ni and Jianfang Wang  
2008, 24 (10), pp 5233-5237  
Publication Date (Web): April 25, 2008 (Letter)  
DOI: 10.1021/la800305j
-  [Full Text HTML](#)  
 [Hi-Res PDF \[1436K\]](#)  
 [PDF w/ Links \[286K\]](#)  
 [Subscriber Access](#)

- Increasing the Density of Adsorbed Hydrogen with Coordinatively Unsaturated Metal Centers in Metal–Organic Frameworks** [Abstract](#) | [Supporting Info](#)  
Yun Liu, Houria Kabbour, Craig M. Brown, Dan A. Neumann, and Channing C. Ahn  
2008, 24 (9), pp 4772-4777  
Publication Date (Web): March 27, 2008 (Research Article)  
DOI: 10.1021/la703864a
-  [Full Text HTML](#)  
 [Hi-Res PDF \[302K\]](#)  
 [PDF w/ Links \[230K\]](#)  
 [Subscriber Access](#)

- Antibacterial Effects of Carbon Nanotubes: Size Does Matter!** [Abstract](#) | [Supporting Info](#)  
Seoktae Kang, Moshe Herzberg, Debora F. Rodrigues and Menachem Elimelech  
2008, 24 (13), pp 6409-6413  
Publication Date (Web): May 30, 2008 (Letter)  
DOI: 10.1021/la800951v
-  [Full Text HTML](#)  
 [Hi-Res PDF \[1942K\]](#)  
 [PDF w/ Links \[318K\]](#)  
 [Subscriber Access](#)

- When Wenzel and Cassie Are Right: Reconciling Local and Global Considerations** [Abstract](#)  
Abraham Marmur and Eyal Bittoun  
2009, 25 (3), pp 1277-1281  
Publication Date (Web): January 7, 2009 (Letter)  
DOI: 10.1021/la802667b
-  [Full Text HTML](#)  
 [Hi-Res PDF \[144K\]](#)  
 [PDF w/ Links \[148K\]](#)  
 [Subscriber Access](#)

- Adsorption of the Protein Bovine Serum Albumin in a Planar Poly(acrylic acid) Brush Layer As Measured by Optical Reflectometry** [Abstract](#)  
Wiebe M. de Vos, P. Maarten Biesheuvel, Arie de Keizer, J. Mieke Kleijn and Martien A. Cohen Stuart  
2008, 24 (13), pp 6575-6584  
Publication Date (Web): May 29, 2008 (Research Article)  
DOI: 10.1021/la8006469
-  [Full Text HTML](#)  
 [Hi-Res PDF \[1402K\]](#)  
 [PDF w/ Links \[362K\]](#)  
 [Subscriber Access](#)

- Nanoshells Made Easy: Improving Au Layer Growth on Nanoparticle Surfaces** [Abstract](#) | [Supporting Info](#)  
Bruce E. Brinson, J. Britt Lassiter, Carly S. Levin, Rizia Bardhan, Nikolay Mirin and Naomi J. Halas  
2008, 24 (24), pp 14166-14171  
Publication Date (Web): November 12, 2008 (Article)  
DOI: 10.1021/la802049p
-  [Full Text HTML](#)  
 [Hi-Res PDF \[741K\]](#)  
 [PDF w/ Links \[223K\]](#)  
 [Subscriber Access](#)

- Regenerative PbS and CdS Quantum Dot Sensitized Solar Cells with a Cobalt Complex as Hole Mediator** [Abstract](#)  
Hyo Joong Lee, Peter Chen, Soo-Jin Moon, Frédéric Sauvage, Kevin Sivula, Takeru Bessho, Daniel R. Gamelin, Pascal Comte, Shaik M. Zakeeruddin, Sang Il Seok, Michael Grätzel and Md. K. Nazeeruddin  
2009, 25 (13), pp 7602-7608  
Publication Date (Web): June 5, 2009 (Article)  
DOI: 10.1021/la900247r
-  [Full Text HTML](#)  
 [Hi-Res PDF \[2125K\]](#)  
 [PDF w/ Links \[879K\]](#)  
 [Subscriber Access](#)

No. 13

**Molecular Simulations for Adsorptive Separation of CO<sub>2</sub>/CH<sub>4</sub> Mixture in Metal-Exposed, Catenated, and Charged Metal–Organic Frameworks**

Ravichandar Babarao, Jianwen Jiang and Stanley I. Sandler

2009, 25 (9), pp 5239-5247

Publication Date (Web): December 18, 2008 (Article)

DOI: 10.1021/la803074g

Abstract

-  Full Text HTML
-  Hi-Res PDF [5080K]
-  PDF w/ Links [1171K]
-  Subscriber Access

**From Hydrophilic to Superhydrophobic: Theoretical Conditions for Making High-Contact-Angle Surfaces from Low-Contact-Angle Materials**

Abraham Marmur

2008, 24 (14), pp 7573-7579

Publication Date (Web): June 11, 2008 (Research Article)

DOI: 10.1021/la800304r

Abstract

-  Full Text HTML
-  Hi-Res PDF [489K]
-  PDF w/ Links [254K]
-  Subscriber Access

No. 15

**Diffusion and Separation of CO<sub>2</sub> and CH<sub>4</sub> in Silicalite, C<sub>168</sub> Schwarzite, and IRMOF-1: A Comparative Study from Molecular Dynamics Simulation**

Ravichandar Babarao and Jianwen Jiang

2008, 24 (10), pp 5474-5484

Publication Date (Web): April 24, 2008 (Research Article)

DOI: 10.1021/la703434s

Abstract

-  Full Text HTML
-  Hi-Res PDF [616K]
-  PDF w/ Links [339K]
-  Subscriber Access

**Zinc(II) Tetraarylporphyrins Anchored to TiO<sub>2</sub>, ZnO, and ZrO<sub>2</sub> Nanoparticle Films through Rigid-Rod Linkers**

Jonathan Rochford and Elena Galoppini

2008, 24 (10), pp 5366-5374

Publication Date (Web): April 15, 2008 (Research Article)

DOI: 10.1021/la703845u

Abstract | Supporting Info

-  Full Text HTML
-  Hi-Res PDF [371K]
-  PDF w/ Links [360K]
-  Subscriber Access