

Gerhard Mestl

List of Publications by Year in descending order

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12
papers

1,545
citations

759233

12
h-index

1199594

12
g-index

14
all docs

14
docs citations

14
times ranked

1730
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Raman Spectroscopy of Monolayer-Type Catalysts: Supported Molybdenum Oxides. <i>Catalysis Reviews - Science and Engineering</i> , 1998, 40, 451-570. | 12.9 | 352 |
| 2 | Carbon Nanofilaments in Heterogeneous Catalysis: An Industrial Application for New Carbon Materials?. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2066-2068. | 13.8 | 250 |
| 3 | The Catalytic Use of Onion-Like Carbon Materials for Styrene Synthesis by Oxidative Dehydrogenation of Ethylbenzene. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1885. | 13.8 | 248 |
| 4 | Oxidative dehydrogenation of ethylbenzene to styrene over ultra-dispersed diamond and onion-like carbon. <i>Carbon</i> , 2007, 45, 2145-2151. | 10.3 | 168 |
| 5 | Large scale synthesis of carbon nanofibers by catalytic decomposition of ethane on nickel nanoclusters decorating carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 514-521. | 2.8 | 106 |
| 6 | In situ Raman spectroscopy "a valuable tool to understand operating catalysts. <i>Journal of Molecular Catalysis A</i> , 2000, 158, 45-65. | 4.8 | 102 |
| 7 | Decomposition of Nitric Oxide over Barium Oxide Supported on Magnesium Oxide. 1. Catalytic Results and In Situ Raman Spectroscopic Evidence for a Barium Nitro Intermediate. <i>Journal of the American Chemical Society</i> , 1997, 119, 10186-10191. | 13.7 | 77 |
| 8 | Destructive Adsorption of Carbon Tetrachloride on Alkaline Earth Metal Oxides. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3773-3778. | 2.6 | 72 |
| 9 | Decomposition of Nitric Oxide over Barium Oxide Supported on Magnesium Oxide. 2. In Situ Raman Characterization of Phases Present during the Catalytic Reaction. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9321-9328. | 2.6 | 58 |
| 10 | Decomposition of Nitric Oxide over Barium Oxide Supported on Magnesium Oxide. 3. In Situ Raman Characterization of the Role of Oxygen. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9329-9334. | 2.6 | 39 |
| 11 | Decomposition of Nitric Oxide over Barium Oxide Supported on Magnesium Oxide. 4. In Situ Raman Characterization of Oxide Phase Transitions and Peroxide Species by ¹⁸ O-Labeling. <i>Journal of Physical Chemistry B</i> , 1998, 102, 154-161. | 2.6 | 38 |
| 12 | Chapter 2 Structural Characterization of Operating Catalysts by Raman Spectroscopy. <i>Advances in Catalysis</i> , 2009, 52, 43-128. | 0.2 | 34 |