

# 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  | Chapter 2 Structural Characterization of Operating Catalysts by Raman Spectroscopy. <i>Advances in Catalysis</i> , 2009, 52, 43-128.  | 0.2  | 34        |
| 2  | Oxidative dehydrogenation of ethylbenzene to styrene over ultra-dispersed diamond and onion-like carbon. <i>Carbon</i> , 2007, 45, 2145-2151.   | 10.3 | 168       |
| 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  | 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       |
| 5  | 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       |
| 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  | Raman Spectroscopy of Monolayer-Type Catalysts: Supported Molybdenum Oxides. <i>Catalysis Reviews - Science and Engineering</i> , 1998, 40, 451-570.  | 12.9 | 352       |
| 8  | Decomposition of Nitric Oxide over Barium Oxide Supported on Magnesium Oxide. 4. In Situ Raman Characterization of Oxide Phase Transitions and Peroxide Species by <sup>18</sup> O-Labeling. <i>Journal of Physical Chemistry B</i> , 1998, 102, 154-161. | 2.6  | 38        |
| 9  | Destructive Adsorption of Carbon Tetrachloride on Alkaline Earth Metal Oxides. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3773-3778.   | 2.6  | 72        |
| 10 | 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        |
| 11 | 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        |
| 12 | 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        |