

Научни публикации на проф. дхн Георги Николов Вайсилов

За участие в конкурса

Научни статии и обзори в списания с импакт фактор: 150

Научни статии и обзори в списания с импакт фактор

150. Stoyan P. Gramatikov, Petko St. Petkov, Zhendong Wang, Weimin Yang, Georgi N. Vayssilov

„Variation of the Orientations of Organic Structure-Directing Agents inside the Channels of SCM-14 and SCM-15 Germanosilicates Obtained by Ab Initio Molecular Dynamic Simulations“
Nanomaterials 14, 159 (2024).

149. Mohammad Fahda, Jawad Fayek, Eddy Dib, Hugo Cruchade, Nathan Pichot, Nourrdine Chaouati, Ludovic Pinard, Petko St. Petkov, Georgi N. Vayssilov, Alvaro Mayoral, Bernhard Witulski, Louwanda Lakiss, and Valentin Valtchev

“Investigating the Physicochemical Properties of an Extra-large Pore Aluminosilicate ZEO-1”
Chemistry of Materials 2024, <https://doi.org/10.1021/acs.chemmater.4c00186>

148. Kristina K. Chakarova, Videlina R. Zdravkova, Bayan S. Karapenchev, Diana D. Nihtianova, Elena Z. Ivanova, Hristiyan A. Aleksandrov, Iskra Z. Koleva, Dimitar A. Panayotov, Mihail Y. Mihaylov, Georgi N. Vayssilov, Konstantin I. Hadjiivanov

„Evolution of Ce⁴⁺ Lewis acidity during dehydroxylation of ceria nanoparticles with different morphology: An integrated FTIR, DFT and HRTEM study“
Journal of Catalysis 433, 115463 (2024).

147. Stoyan P. Gramatikov, Petko St. Petkov, Zhendong Wang, Weimin Yang, Georgi N. Vayssilov

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Frontiers of Chemical Science and Engineering 18, 58 (2024).

146. Nikola Drenchev, Hristiyan A. Aleksandrov, Georgi N. Vayssilov, Borislav Shivachev, Konstantin Hadjiivanov

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145. Edwin B Clatworthy, Simona Moldovan, Kalthoum Nakouri, Stoyan P. Gramatikov, Francesco Dalena, Marco Daturi, Petko St. Petkov, Georgi N. Vayssilov, Svetlana Mintova

“Visualizing the Flexibility of RHO Nanozeolite: Experiment and Modeling”
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144. Peng Peng, Simona Moldovan, Aurélie Vicente, Valérie Ruaux, Maxime Debost, Han Hu, Hristiyan A. Aleksandrov, Georgi N. Vayssilov, Zi-Feng Yan, Svetlana Mintova

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143. Eddy Dib, Svetlana Mintova, Georgi N. Vayssilov, Hristiyan A. Aleksandrov, Marina Carravetta
“Chemical Shift Anisotropy: A Promising Parameter To Distinguish the ^{29}Si NMR Peaks in Zeolites.”
Journal of Physical Chemistry C, 127, 10792–10796 (2023).
142. Iskra Z. Koleva, Hristiyan A. Aleksandrov, and Georgi N. Vayssilov
“Comparison of the Reactivity of Platinum Cations and Clusters Supported on Ceria or Alumina in Carbon Monoxide Oxidation”
ACS Catalysis, 13, 5358–5374 (2023).
141. Konstantin Khivantsev, Nicholas R. Jaegers, Hristiyan A. Aleksandrov, Inhak Song, Xavier Isidro Pereira-Hernandez, Mark H. Engelhard, Jinshu Tian, Linxiao Chen, Debora Motta Meira, Libor Kovarik, Georgi N. Vayssilov, Yong Wang, János Szanyi
“Single Ru (II) Ions on Ceria as a Highly Active Catalyst for Abatement of NO”
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140. Dong Gun Oh, Hristiyan A. Aleksandrov, Haneul Kim, Iskra Z. Koleva, Konstantin Khivantsev, Georgi N. Vayssilov, Ja Hun Kwak
“Understanding of Active Sites and Interconversion of Pd and PdO during CH_4 Oxidation”
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139. Nikola L. Drenchev, Elena Z. Ivanova, Mihail Y. Mihaylov, Hristiyan A. Aleksandrov, Georgi N Vayssilov, Konstantin I Hadjiivanov
“One Ca^{2+} Site in CaNaY Zeolite Can Attach Three CO_2 Molecules”
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137. Georgi N. Vayssilov, Hristiyan A. Aleksandrov, Eddy Dib, Izabel Medeiros Costa, Nikolai Nesterenko, Svetlana Mintova
“Superacidity and spectral signatures of hydroxyl groups in zeolites”
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"Charting the Atomic C Interaction with Transition Metal Surfaces"
ACS Catalysis, 12, 9256-9269 (2022)

133. Stefan K. Kolev, Petko St. Petkov, Teodor I. Milenov, Georgi N. Vayssilov
"Sodium and Magnesium Ion Location at the Backbone and at the Nucleobase of RNA: Ab Initio Molecular Dynamics in Water Solution"
ACS omega, 7, 23234-23244 (2022)

132. Stoyan P. Gramatikov, Petko St. Petkov, Georgi N. Vayssilov
"The relative stability of SCM-14 germanosilicate with different distributions of germanium ions in the absence and presence of structure-directing agents"
Inorganic Chemistry Frontiers, 9, 3747-3757 (2022)

131. Naonobu Katada, Kana Yamamoto, Moeri Fukui, Kai Asanuma, Satoshi Inagaki, Kazuki Nakajima, Satoshi Suganuma, Etsushi Tsuji, Ana Palcic, Valentin Valtchev, Petko St. Petkov, Kristina Simeonova, Georgi N. Vayssilov, Yoshihiro Kubota
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"Defect Formation, T-Atom Substitution and Adsorption of Guest Molecules in MSE-Type Zeolite Framework—DFT Modeling"
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