# Alexis Markovits

List of Publications by Year
in descending order

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| 26 | 543 | 687363 13 | 642732 23 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 27 | 27 | 27 | 811 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comparison of the reduction of metal oxide surfaces: TiO2-anatase, TiO2-rutile and SnO2-rutile. Surface Science, 2005, 583, 107-117. | 1.9 | 110 |
| 2 | A theoretical study of CO2 adsorption on TiO2. Computational and Theoretical Chemistry, 1996, 371, 219-235. | 1.5 | 76 |
| 3 | A theoretical analysis of NH3 adsorption on TiO2. Surface Science, 1996, 365, 649-661. | 1.9 | 75 |
| 4 | Modeling Localized Photoinduced Electrons in Rutile-TiO<sub>2</sub> Using Periodic DFT+U Methodology. Langmuir, 2010, 26, 16232-16238. | 3.5 | 36 |
| 5 | Triethylamine on Si(001)-(2 Ã— 1) at 300 K: Molecular Adsorption and Site Configurations Leading to Dissociation. Journal of Physical Chemistry C, 2012, 116, 16473-16486. | 3.1 | 26 |
| 6 | FS+ and FS+(OHâ^') defect centers at the MgO(100) surface: cluster and periodic calculations. Surface Science, 2004, 549, 294-304. | 1.9 | 24 |
| 7 | Theoretical Study of the Acetonitrile Flip-Flop with the Electric Field Orientation: Adsorption on a Pt(111) Electrode Surface. Catalysis Letters, 2003, 91, 225-234. | 2.6 | 20 |
| 8 | First Row Transition Metal Atom Adsorption on Defect-Free MgO(100) Surface. Journal of Physical Chemistry C, 2007, 111, 6781-6788. | 3.1 | 20 |
| 9 | Theoretical Study of the TiO2 and MgO Surface Acidity and the Adsorption of Acids and Bases. Molecular Engineering, 1997, 7, 245-261. | 0.2 | 19 |
| 10 | Adsorption of the first row of transition metals on the perfect and defective MgO(100) surface. Chemical Physics Letters, 2008, 463, 106-111. | 2.6 | 17 |
| 11 | First-row transition metal atoms adsorption on rutile TiO2(110) surface. Structural Chemistry, 2012, 23, 1309-1321. | 2.0 | 17 |
| 12 | CO dissociation on magnetic Fe<sub>n</sub> clusters. Physical Chemistry Chemical Physics, 2014, 16, 20703-20713. | 2.8 | 16 |
| 13 | Coadsorption of Gold with Hydrogen or Potassium on TiO2(110) Surface. Journal of Physical Chemistry C, 2008, 112, 14010-14014. | 3.1 | 13 |
| 14 | First Row Transition Metal Atom Adsorption On-Top of FÂ°<sub>s</sub> Defects of a MgO(100) Surface. Journal of Physical Chemistry C, 2008, 112, 16491-16496. | 3.1 | 13 |
| 15 | Core restructuring for magnetic Fe55 icosahedral nanoparticles. Chemical Physics Letters, 2012, 541, 101-104. | 2.6 | 10 |
| 16 | Ab initio periodic pseudopotential Hartree-Fock calculations of O2 dissociation on perfect Si(100) surface. Journal of Molecular Catalysis A, 1997, 119, 185-193. | 4.8 | 7 |
| 17 | Ab initio study of the optical transitions on low-coordinated sites of an intermediate F center: The Fs+(OH)â^' center on MgO(100) surface. Solid State Ionics, 2007, 178, 173-178. | 2.7 | 7 |
| 18 | Exploring CO dissociation on Fe nanoparticles by density functional theory-based methods: Fe13 as a case study. Theoretical Chemistry Accounts, 2014, 133, 1. | 1.4 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Support effect on H adsorption on a metal atom. Chemical Physics Letters, 2013, 565, 45-51. | 2.6 | 6 |
| 20 | Improved convergence of rutile-TiO2(110) slab properties with thickness by one-side saturation. Chemical Physics Letters, 2012, 531, 90-93. | 2.6 | 5 |
| 21 | Metal atom adsorption on a defective TiO2â€“x support. Chemical Physics Letters, 2014, 594, 23-29. | 2.6 | 5 |
| 22 | Hartreeâ€“Fock study of the Si(l00) reconstruction. Computational and Theoretical Chemistry, 1998, 458, 171-189. | 1.5 | 4 |
| 23 | Reactivity of transition metal atoms supported or not on TiO2(110) toward CO and H adsorption. Theoretical Chemistry Accounts, 2015, 134, 1. | 1.4 | 4 |
| 24 | Increased CO adsorption on supported VIB and IB metals. Chemical Physics Letters, 2009, 475, 215-219. | 2.6 | 2 |
| 25 | Theoretical Study of the TiO2 and MgO Surface Acidity and the Adsorption of Acids and Bases. Topics in Molecular Organization and Engineering, 1997, , 245-261. | 0.1 | 2 |
| 26 | Peculiar adsorption induced by strong hydrogen bonds on perfect anatase (0 0 1) surface. Applied Surface Science, 2022, 594, 153397. | 6.1 | 2 |