

Peer reviewed publications

1. **Physical Review Letters** 69, 1971 (1992), B. Hammer, K. W. Jacobsen, and J. K. Nørskov., 'The dissociation path for H₂ on Al(110)'
2. **Journal of Physics: Condensed Matter** 4, 10453 (1992), B. Hammer, K. W. Jacobsen, V. Milman, and M. C. Payne., 'Stacking Fault Energies in Aluminium'
3. **Surface Science** 285, 27 (1993), K. Gundersen, B. Hammer, K. W. Jacobsen, J. K. Nørskov, J. S. Lin, and V. Milman., 'Chemisorption and vibration of hydrogen on Cu(111)'
4. **Physical Review Letters** 70, 3971 (1993), B. Hammer, K. W. Jacobsen, and J. K. Nørskov., 'Role of non-local exchange-correlation in activated adsorption'
5. **Surface Science Letters** 297, L68 (1993), B. Hammer, K. W. Jacobsen, and J. K. Nørskov., 'Polarization and charge transfer during the dissociation of H₂ on Al(110)'
6. **Surface Science** 304, 131 (1994), K. Gundersen, K. W. Jacobsen, J. K. Nørskov, and B. Hammer., 'The energetics and dynamics of H₂ dissociation on Al(110)'
7. **Physical Review Letters** 73, 1400 (1994), B. Hammer, M. Scheffler, K. W. Jacobsen and J. K. Nørskov., 'Multidimensional potential energy surface for H₂ dissociation over Cu(111)'
8. **Physical Review Letters** 73, 3121 (1994), A. Gross, B. Hammer, M. Scheffler, and W. Brenig., 'High-Dimensional quantum dynamics of adsorption and desorption of H₂ at Cu(111)'
9. **Surface Science** 331-333, 811 (1995), A. Hanbicki, A. P. Baddorf, E. W. Plummer, B. Hammer, and M. Scheffler., 'The Interaction of Hydrogen with the (110) Surface of NiAl'
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12. **Physical Review Letters** 74, 3487 (1995), B. Hammer and M. Scheffler., 'Local chemical reactivity of a metal alloy surface'
13. **Nature** 376, 238 (1995), B. Hammer and J. K. Nørskov., 'Why gold is the noblest of all the metals'
14. **Surface Reviews and Letters**, 3, 1227 (1996), P. Kratzer, B. Hammer, F. Grey, and J. K. Nørskov., 'Stability of adsorbed hydrogen on Si(100) under changes of the surface potential'
15. **Surface Science** 343, 211 (1995), B. Hammer and J. K. Nørskov., 'Electronic factors determining the reactivity of metal surfaces'
16. **Physical Review B** 52, 14954 (1995), J. Jacobsen, B. Hammer, K. W. Jacobsen, and J. K. Nørskov., 'Electronic structure, total energies and STM images of clean and oxygen covered Al(111)'
17. **Catalysis Letters**, 40, 131 (1996), P. M. Holmblad J. Hvolbæk Larsen, I. Chorkendorff, L. Pleth Nielsen, F. Besenbacher, I. Stensgaard, E. Lægsgaard, P. Kratzer, B. Hammer, and J. K. Nørskov., 'Designing surface alloys with specific active sites'
18. **Physical Review Letters**, 76, 2141 (1996), B. Hammer, Y. Morikawa, and J. K. Nørskov., 'CO chemisorption over metal surfaces and overlayers'
19. **Surface Science**, 359, 45 (1996), P. Kratzer, B. Hammer and J. K. Nørskov., 'Geometric and electronic factors determining the difference in reactivity of H₂ on Cu(100) and Cu(111)'
20. **Surface Science**, 364, 219 (1996), A. D. Kinnersley, G. R. Darling, S. Holloway, and B. Hammer. 'A comparison of quantum and classical dynamics of H₂ dissociation on Cu(111)'
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23. **Zeitschrift für Physikalische Chemie**, 198, 113 (1997), J. J. Mortensen, Y. Morikawa, B. Hammer, and J. K. Nørskov. 'A comparison of N₂ and CO adsorption on Ru(001)'
24. **Catalysis Letters**, 46, 31 (1997), B. Hammer, O. H. Nielsen, and J. K. Nørskov. 'Structure sensitivity in adsorption: CO interaction with stepped and reconstructed Pt surfaces'
25. **Physical Review B**, 56, 2258 (1997), T. R. Mattsson, G. Wahnström, L. Bengtsson, and B. Hammer., 'Quantum mechanical calculation of H on Ni(001) using a model potential based on first-principles calculations'
26. **Surface Science**, 386, 67 (1997), Y. Morikawa, J. J. Mortensen, B. Hammer, and J. K. Nørskov. 'CO adsorption and dissociation on Pt(111) and Ni(111) surfaces'
27. **Journal of Catalysis**, 169, 85 (1997), J. J. Mortensen, Y. Morikawa, B. Hammer, and J. K. Nørskov. 'Density functional calculations of N₂ adsorption and dissociation on a Ru(0001) surface'
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33. **Faraday Discussion** 110, 323 (1998), B. Hammer., 'Reactivity of a stepped surface: NO dissociation on Pd(211)'

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35. **Surface Science**, 414, 315 (1998), J. J. Mortensen, B. Hammer, and J. K. Nørskov., 'A theoretical study of adsorbate-adsorbate interactions on Ru(0001)'
36. **Surface Science**, 422, 8 (1999), J. J. Mortensen, M. V. Ganduglia-Pirovano, L. B. Hansen, B. Hammer, P. Stoltze, and J. K. Nørskov., 'Nitrogen adsorption on Fe(111), (100), and (110) surfaces'
37. **Physical Review Letters**, 81, 2819 (1998), M. Mavrikakis, B. Hammer, and J. K. Nørskov., 'The effect of strain on the reactivity of metal surfaces'
38. **Journal of Catalysis**, 182, 479 (1999), J. J. Mortensen, L. B. Hansen, B. Hammer and J. K. Nørskov., 'Nitrogen adsorption and dissociation on Fe(111)'
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44. **Physical Review Letters**, 83, 3681 (1999), B. Hammer., 'Bond activation at monatomic steps: NO dissociation at corrugated Ru(0001)'
45. **Advances in Catalysis** vol. 45, 71 (2000), B. Hammer, and J. K. Nørskov., 'Theoretical surface science and catalysis – calculations and concepts'
46. **Surface Science**, 459, 323 (2000), B. Hammer, 'Adsorption, diffusion, and dissociation of NO, N and O on flat and stepped Ru(0001)'
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