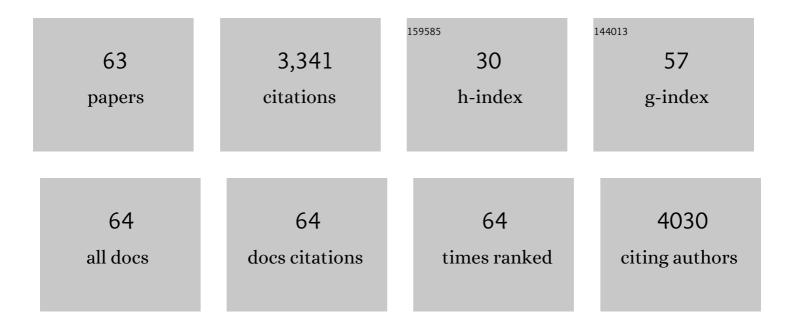
## Marlies Hankel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6366266/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Boosting reversible lithium storage in two-dimensional C3N4 by achieving suitable adsorption energy via Si doping. Carbon, 2021, 176, 480-487.	10.3	21
2	Carbon nitrides as cathode materials for aluminium ion batteries. Carbon, 2021, 183, 546-559.	10.3	9
3	Design of a 1D/2D C3N4/rGO composite as an anode material for stable and effective potassium storage. Energy Storage Materials, 2020, 25, 495-501.	18.0	68
4	Insights into the trapping mechanism of light metals on C2N-h2D: Utilisation as an anode material for metal ion batteries. Carbon, 2020, 160, 125-132.	10.3	29
5	1D/2D C <sub>3</sub> N <sub>4</sub> /Graphene Composite as a Preferred Anode Material for Lithium Ion Batteries: Importance of Heterostructure Design via DFT Computation. ACS Applied Materials & Interfaces, 2020, 12, 25875-25883.	8.0	40
6	Accurate prediction of binding energies for twoâ€dimensional catalytic materials using machine learning. ChemCatChem, 2020, 12, 5109-5120.	3.7	14
7	Theoretical and experimental investigations of mesoporous C3N5/MoS2 hybrid for lithium and sodium ion batteries. Nano Energy, 2020, 72, 104702.	16.0	65
8	Graphdiyne and Hydrogen-Substituted Graphdiyne as Potential Cathode Materials for High-Capacity Aluminum-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 7404-7415.	5.1	19
9	Evaluating the Catalytic Efficiency of Paired, Single-Atom Catalysts for the Oxygen Reduction Reaction. ACS Catalysis, 2019, 9, 7660-7667.	11.2	128
10	Three-Dimensional Silicon Carbide from Siligraphene as a High Capacity Lithium Ion Battery Anode Material. Journal of Physical Chemistry C, 2019, 123, 27295-27304.	3.1	26
11	Unlocking the potential of commercial carbon nanofibers as free-standing positive electrodes for flexible aluminum ion batteries. Journal of Materials Chemistry A, 2019, 7, 15123-15130.	10.3	32
12	Doping Effects on the Performance of Paired Metal Catalysts for the Hydrogen Evolution Reaction. Journal of Chemical Information and Modeling, 2019, 59, 2242-2247.	5.4	15
13	Hydrogenated defective graphene as an anode material for sodium and calcium ion batteries: A density functional theory study. Carbon, 2018, 136, 73-84.	10.3	52
14	Enriching the hydrogen storage capacity of carbon nanotube doped with polylithiated molecules. Applied Surface Science, 2018, 444, 467-473.	6.1	24
15	Interaction of Boron Nitride Nanotubes with Aluminum: A Computational Study. Journal of Physical Chemistry C, 2018, 122, 15226-15240.	3.1	6
16	Carbon Nitride Nanofibres with Exceptional Lithium Storage Capacity: From Theoretical Prediction to Experimental Implementation. Advanced Functional Materials, 2018, 28, 1803972.	14.9	77
17	Coordination of Atomic Co–Pt Coupling Species at Carbon Defects as Active Sites for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2018, 140, 10757-10763.	13.7	464
18	Sodium-intercalated bulk graphdiyne as an anode material for rechargeable batteries. Journal of Power Sources, 2017, 343, 354-363.	7.8	66

MARLIES HANKEL

#	Article	IF	CITATIONS
19	Functionalized carbon nitride (g-CN) monolayer as a promising energy storage material: A density functional theory study. Applied Surface Science, 2017, 419, 708-712.	6.1	22
20	Enhanced CO2 photocatalytic reduction on alkali-decorated graphitic carbon nitride. Applied Catalysis B: Environmental, 2017, 216, 146-155.	20.2	127
21	Biphenylene and Phagraphene as Lithium Ion Battery Anode Materials. ACS Applied Materials & Interfaces, 2017, 9, 20577-20584.	8.0	122
22	Capacitance-enhanced sodium-ion storage in nitrogen-rich hard carbon. Journal of Materials Chemistry A, 2017, 5, 22186-22192.	10.3	85
23	Improving Sensing of Sulfur-Containing Gas Molecules with ZnO Monolayers by Implanting Dopants and Defects. Journal of Physical Chemistry C, 2017, 121, 24365-24375.	3.1	35
24	Graphenylene Monolayers Doped with Alkali or Alkaline Earth Metals: Promising Materials for Clean Energy Storage. Journal of Physical Chemistry C, 2017, 121, 14393-14400.	3.1	65
25	Computational Evaluation of Lithium-Functionalized Carbon Nitride (g-C <sub>6</sub> N <sub>8</sub> ) Monolayer as an Efficient Hydrogen Storage Material. Journal of Physical Chemistry C, 2016, 120, 25180-25188.	3.1	76
26	Lithium storage on carbon nitride, graphenylene and inorganic graphenylene. Physical Chemistry Chemical Physics, 2016, 18, 14205-14215.	2.8	93
27	Nearside-farside, local angular momentum and resummation theories: Useful tools for understanding the dynamics of complex-mode reactions. AIP Advances, 2015, 5, .	1.3	9
28	Understanding the Origin of Li <sub>2</sub> MnO <sub>3</sub> Activation in Liâ€Rich Cathode Materials for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2015, 25, 7488-7496.	14.9	151
29	Computational Studies of the Interaction of Carbon Dioxide with Graphene-Supported Titanium Dioxide. Journal of Physical Chemistry C, 2015, 119, 29044-29051.	3.1	15
30	Lithium and Sodium Storage on Graphitic Carbon Nitride. Journal of Physical Chemistry C, 2015, 119, 21921-21927.	3.1	115
31	Modelling carbon membranes for gas and isotope separation. Physical Chemistry Chemical Physics, 2013, 15, 4832.	2.8	95
32	An accurate study of the dynamics of the C+OH reaction on the second excited 14A″ potential energy surface. Journal of Chemical Physics, 2012, 136, 164309.	3.0	8
33	Dynamics of the D+ + H2 and H+ + D2 reactions: a detailed comparison between theory and experiment. Physical Chemistry Chemical Physics, 2012, 14, 3346.	2.8	34
34	Quantum dynamics study of the N(2D)+H2 reaction and the effects of the potential energy surface on the propagation time. Computational and Theoretical Chemistry, 2012, 990, 23-29.	2.5	9
35	Asymmetrically Decorated, Doped Porous Graphene As an Effective Membrane for Hydrogen Isotope Separation. Journal of Physical Chemistry C, 2012, 116, 6672-6676.	3.1	81
36	Anatomy of the S(1D) + H2 reaction: the dynamics on two new potential energy surfaces from quantum dynamics calculations. Physical Chemistry Chemical Physics, 2011, 13, 13645.	2.8	26

MARLIES HANKEL

#	Article	IF	CITATIONS
37	Coriolis coupling effects in the dynamics of deep well reactions: application to the H+ + D2 reaction. Physical Chemistry Chemical Physics, 2011, 13, 7948.	2.8	26
38	Energy dependent dynamics of the O(1D) + HCl reaction: A quantum, quasiclassical and statistical study. Physical Chemistry Chemical Physics, 2011, 13, 8502.	2.8	13
39	Kinetic modelling of molecular hydrogen transport in microporous carbon materials. Physical Chemistry Chemical Physics, 2011, 13, 7834.	2.8	29
40	Graphdiyne: a versatile nanomaterial for electronics and hydrogen purification. Chemical Communications, 2011, 47, 11843.	4.1	329
41	Significant nonadiabatic effects in the C + CH reaction dynamics. Journal of Chemical Physics, 2011, 135, 024306.	3.0	13
42	Quantum calculations for the S(1D)+H2reaction employing the ground adiabatic electronic state. Physica Scripta, 2011, 84, 028102.	2.5	14
43	Exact and truncated Coriolis coupling calculations for the S(1D)+HD reaction employing the ground adiabatic electronic state. Physical Chemistry Chemical Physics, 2010, 12, 12711.	2.8	29
44	Nonadiabatic quantum dynamics calculations for the N + NH → N2 + H reaction. Physical Chemistry Chemical Physics, 2010, 12, 9619.	2.8	12
45	The dynamics of the H <sup>+</sup> + D <sub>2</sub> reaction: a comparison of quantum mechanical wavepacket, quasi-classical and statistical-quasi-classical results. Physical Chemistry Chemical Physics, 2010, 12, 1102-1115.	2.8	48
46	INITIAL ROTATIONAL QUANTUM STATE EXCITATION AND ISOTOPIC EFFECTS FOR THE <font>O</font> ( <sup>1</sup> D)+ <font>HCl</font> → <font>OH+Cl (OCl+H)</font> REACTION. Journal of Theoretical and Computational Chemistry, 2009, 08, 1003-1024.	1.8	3
47	Nonadiabatic effects in the H+H2 exchange reaction: Accurate quantum dynamics calculations at a state-to-state level. Journal of Chemical Physics, 2009, 130, 144301.	3.0	25
48	Integral and differential cross sections for the S(1D)+HD reaction employing the ground adiabatic electronic state. Physical Chemistry Chemical Physics, 2009, 11, 11587.	2.8	36
49	Quantum mechanical calculations of the S( <sup>1</sup> <i>D</i> )+HD reaction dynamics on the ground electronic state. Journal of Physics: Conference Series, 2009, 185, 012056.	0.4	8
50	DIFFREALWAVE: A parallel real wavepacket code for the quantum mechanical calculation of reactive state-to-state differential cross sections in atom plus diatom collisions. Computer Physics Communications, 2008, 179, 569-578.	7.5	43
51	Study of the H+O2 reaction by means of quantum mechanical and statistical approaches: The dynamics on two different potential energy surfaces. Journal of Chemical Physics, 2008, 128, 244308.	3.0	32
52	Quantum Mechanical Calculation of Energy Dependence of OCI/OH Product Branching Ratio and Product Quantum State Distributions for the O( <sup>1</sup> <i>D</i> ) + HCl Reaction on All Three Contributing Electronic State Potential Energy Surfaces. Journal of Physical Chemistry A, 2008, 112, 7947-7960.	2.5	14
53	Quantum Calculation of Ro-vibrational States:  Methodology and DOCI Application Results. Journal of Physical Chemistry A, 2008, 112, 4141-4147.	2.5	6
54	Quantum dynamical study of the O(D1)+HCl reaction employing three electronic state potential energy surfaces. Journal of Chemical Physics, 2008, 128, 014308.	3.0	21

MARLIES HANKEL

#	Article	IF	CITATIONS
55	Coriolis coupling effects in the calculation of state-to-state integral and differential cross sections for the H+D2 reaction. Journal of Chemical Physics, 2007, 126, 214303.	3.0	24
56	State-to-state reaction probabilities for the H+O2(v,j)→O+OH(v′,j′) reaction on three potential energy surfaces. Journal of Chemical Physics, 2007, 127, 064316.	3.0	29
57	State-to-state reactive differential cross sections for the H+H2→H2+H reaction on five different potential energy surfaces employing a new quantum wavepacket computer code: DIFFREALWAVE. Journal of Chemical Physics, 2006, 125, 164303.	3.0	85
58	Influence of van der Waals wells on the quantum scattering dynamics of the Cl(2P)+HCl→ClH+Cl(2P) reaction. Chemical Physics, 2005, 308, 225-236.	1.9	12
59	Sinc wave packets: New form of wave packet for time-dependent quantum mechanical reactive scattering calculations. International Journal of Quantum Chemistry, 2003, 92, 205-211.	2.0	42
60	Influence of Spinâ^'Orbit Effects on Chemical Reactions:  Quantum Scattering Studies for the Cl(2P) + HCl → ClH + Cl(2P) Reaction Using Coupled ab Initio Potential Energy Surfaces. Journal of Physical Chemistry A, 2003, 107, 7278-7289.	2.5	21
61	Quantum Mechanical Calculation of Reaction Probabilities and Branching Ratios for the O(1D) + HD → OH(OD) + D(H) Reaction on the XÌ∫1Aâ€~and 11Aâ€~â€~Adiabatic Potential Energy Surfacesâ€. Journal of Physical Chemistry A, 2001, 105, 2330-2339.	2.5	50
62	Quantum mechanical calculation of product state distributions for the O(1D)+H2→OH+H reaction on the ground electronic state surface. Journal of Chemical Physics, 2000, 113, 9658-9667.	3.0	50
63	A molecular dynamics model for symplectic intergrators. Mathematical Modelling of Systems, 1997, 3, 282-296.	0.7	3