

# Jakub S Prauzner-Bechcicki

## List of Publications by Year in descending order

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39  
papers

876  
citations

516215

16  
h-index

476904

29  
g-index

41  
all docs

41  
docs citations

41  
times ranked

899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symphony on strong field approximation. Reports on Progress in Physics, 2019, 82, 116001.	8.1	123
2	Two-mode squeezed vacuum state coupled to the common thermal reservoir. Journal of Physics A, 2004, 37, L173-L181.	1.6	92
3	Time-Resolved Quantum Dynamics of Double Ionization in Strong Laser Fields. Physical Review Letters, 2007, 98, 203002.	2.9	60
4	Polymerization of Polyanthrylene on a Titanium Dioxide (011) $\hat{\text{A}}\text{E}(2\text{A}\text{--}1)$ Surface. Angewandte Chemie - International Edition, 2013, 52, 10300-10303.	7.2	53
5	Supramolecular Ordering of PTCDA Molecules: The Key Role of Dispersion Forces in an Unusual Transition from Physisorbed into Chemisorbed State. ACS Nano, 2012, 6, 8536-8545.	7.3	49
6	High-Resolution STM Studies of Terephthalic Acid Molecules on Rutile TiO <sub>2</sub> (110)-(1 $\hat{\text{A}}$ — $\hat{\text{A}}$ ) Tj ETQq 0 0 rgBT/Overloc	1.5	43
7	Self-Assembly of Terephthalic Acid on Rutile TiO <sub>2</sub> (110): Toward Chemically Functionalized Metal Oxide Surfaces. Journal of Physical Chemistry C, 2008, 112, 12606-12609.	1.5	39
8	On-surface polymerization on a semiconducting oxide: aryl halide coupling controlled by surface hydroxyl groups on rutile TiO <sub>2</sub> (011). Chemical Communications, 2015, 51, 11276-11279.	2.2	36
9	Adsorption of organic molecules on the TiO <sub>2</sub> (011) surface: STM study. Journal of Chemical Physics, 2011, 134, 224701.	1.2	35
10	Chemical Functionalization of the TiO <sub>2</sub> (110)-(1 $\hat{\text{A}}$ — 1) Surface by Deposition of Terephthalic Acid Molecules. A Density Functional Theory and Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2011, 115, 4134-4144.	1.5	28
11	Quantum model for double ionization of atoms in strong laser fields. Physical Review A, 2008, 78, .	1.0	26
12	Atomic and molecular scale devices and systems for single molecule electronics. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 603-613.	0.8	19
13	<i>Ab initio</i> study of time-dependent dynamics in strong-field triple ionization. Physical Review A, 2018, 98, .	1.0	19
14	Nonsequential double ionization of molecules. Physical Review A, 2005, 71, .	1.0	18
15	Phase effects in double ionization by strong short pulses. Chemical Physics, 2010, 370, 168-174.	0.9	18
16	Characterization of PTCDA nanocrystals on Ge(001):H-(2 $\hat{\text{A}}$ —1) surfaces. Applied Surface Science, 2015, 332, 403-408.	3.1	18
17	[11]Anthrahelicene on TiO <sub>2</sub> surfaces. Surface Science, 2012, 606, 1600-1607.	0.8	15
18	Controlled Reorientation of CuPc Molecules in Ordered Structures Assembled on the TiO <sub>2</sub> (011) $\hat{\text{A}}\text{E}(2\text{A}\text{--}1)$ Surface. ChemPhysChem, 2010, 11, 1863-1866.	1.0	14

#	ARTICLE	IF	CITATIONS
19	Structure of the indium-rich InSb(001) surface. <i>Physical Review B</i> , 2010, 82, .	1.1	14
20	STM tip-assisted engineering of molecular nanostructures: PTCDA islands on Ge(001):H surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 927-932.	1.5	14
21	Scanning probe microscopy studies on the adsorption of selected molecular dyes on titania. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1642-1653.	1.5	14
22	Restricted-space <i>ab initio</i> models for double ionization by strong laser pulses. <i>Physical Review A</i> , 2018, 98, .	1.0	14
23	Polymerization of Polyanthrylene on a Titanium Dioxide (011) $\hat{\text{A}}\{2\text{A}-1\}$ Surface. <i>Angewandte Chemie</i> , 2013, 125, 10490-10493.	1.6	13
24	Adsorption of Large Organic Molecules on Clean and Hydroxylated Rutile TiO <sub>2</sub> (110) Surfaces. <i>ChemPhysChem</i> , 2009, 10, 3278-3284.	1.0	12
25	A systematic construction of Gaussian basis sets for the description of laser field ionization and high-harmonic generation. <i>Journal of Chemical Physics</i> , 2021, 154, 094111.	1.2	12
26	Transformations of PTCDA structures on rutile TiO <sub>2</sub> induced by thermal annealing and intermolecular forces. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1498-1507.	1.5	11
27	Aryl Halide C-C Coupling on Ge(001):H Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27478-27482.	1.5	11
28	Suppression of correlated electron escape in double ionization in strong laser fields. <i>Physical Review A</i> , 2008, 77, .	1.0	9
29	[11]Anthrahelicene on InSb(001) c(8 $\hat{\text{A}}$ -2): A Low-Temperature Scanning Probe Microscopy Study. <i>ChemPhysChem</i> , 2010, 11, 3522-3528.	1.0	9
30	Double ionization of a three-electron atom: Spin correlation effects. <i>Physical Review A</i> , 2019, 100, .	1.0	8
31	Strong-field ionization of atoms with $p^3$ valence shell: Two versus three active electrons. <i>Physical Review A</i> , 2020, 101, .	1.0	7
32	Three-electron correlations in strong laser field ionization. <i>Optics Express</i> , 2021, 29, 26526.	1.7	7
33	Strong-field triple ionisation of atoms with $p^3$ valence shell. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 114001.	0.6	6
34	Rescattering effects in streaking experiments of strong-field ionization. <i>Physical Review A</i> , 2019, 100, .	1.0	4
35	Dalitz plots as a tool to resolve nonsequential paths in strong-field triple ionization. <i>Physical Review A</i> , 2022, 105, .	1.0	4
36	Nonsequential Double Ionization of Atoms in Strong Laser Pulses. <i>Acta Physica Polonica A</i> , 2007, 112, 699-706.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Momentum distributions after double ionization. Chaos, 2008, 18, 041110.	1.0	0
38	Aryl-Aryl Covalent Coupling on Rutile TiO2 Surfaces. Advances in Atom and Single Molecule Machines, 2018, , 153-177.	0.0	0
39	Triple-Ionization in Strong-Laser Fields. , 2021, , .		0