

Michel Bockstedte

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

2,760
citations

26
h-index

52
g-index

75
ext. papers

2,938
ext. citations

3.5
avg, IF

4.72
L-index

#	Paper	IF	Citations
74	Self-metalation of a free-base porphyrin on a metal oxide surface mediated by extended defects: insight from ab initio molecular dynamics simulations. <i>Surface Science</i> , 2022 , 122101	1.8	1
73	Removing the orientational degeneracy of the TS defect in 4H-SiC by electric fields and strain. <i>New Journal of Physics</i> , 2021 , 23, 073002	2.9	
72	Morphology dependent interaction between Co(II)-tetraphenylporphyrin and the MgO(100) surface. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2105-2116	3.6	3
71	Effect of crystallization on the electronic and optical properties of archetypical porphyrins. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3825-3830	3.6	3
70	Impact of Electron Solvation on Ice Structures at the Molecular Scale. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1310-1316	6.4	4
69	Electrical Charge State Manipulation of Single Silicon Vacancies in a Silicon Carbide Quantum Optoelectronic Device. <i>Nano Letters</i> , 2019 , 19, 7173-7180	11.5	36
68	From Anhydrous Zinc Oxide Nanoparticle Powders to Aqueous Colloids: Impact of Water Condensation and Organic Salt Adsorption on Free Exciton Emission. <i>Langmuir</i> , 2019 , 35, 8741-8747	4	5
67	Cobalt and Iron Ions in MgO Nanocrystals: Should They Stay or Should They Go. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25991-26004	3.8	7
66	Dynamical simulation of electron transfer processes in self-assembled monolayers at metal surfaces using a density matrix approach. <i>Journal of Chemical Physics</i> , 2018 , 148, 124705	3.9	4
65	Ab initio description of highly correlated states in defects for realizing quantum bits. <i>Npj Quantum Materials</i> , 2018 , 3,	5	38
64	Microscopic Insight into Electron-Induced Dissociation of Aromatic Molecules on Ice. <i>Physical Review Letters</i> , 2018 , 121, 206001	7.4	7
63	Organisation von Metalloxid-Nanowiren durch Hydroxylierung. <i>Angewandte Chemie</i> , 2017 , 129, 1428-1432	3.3	7
62	Electronic structure of tetraphenylporphyrin layers on Ag(100). <i>Physical Review B</i> , 2017 , 95,	3.3	7
61	Hydroxylation Induced Alignment of Metal Oxide Nanocubes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1407-1410	16.4	12
60	Vibrationally dependent electron-electron interactions in resonant electron transport through single-molecule junctions. <i>Physical Review B</i> , 2016 , 93,	3.3	12
59	Incomplete Bilayer Termination of the Ice (0001) Surface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10973-10974	3.8	14
58	Doping of 4H-SiC with Group IV Elements. <i>Materials Science Forum</i> , 2016 , 858, 301-307	0.4	5

57	Electroluminescence: From White to Red: Electric-Field Dependent Chromaticity of Light-Emitting Electrochemical Cells based on Archetypal Porphyrins (Adv. Funct. Mater. 37/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6736-6736	15.6	3
56	From White to Red: Electric-Field Dependent Chromaticity of Light-Emitting Electrochemical Cells based on Archetypal Porphyrins. <i>Advanced Functional Materials</i> , 2016 , 26, 6737-6750	15.6	44
55	Spin and photophysics of carbon-antisite vacancy defect in 4H silicon carbide: A potential quantum bit. <i>Physical Review B</i> , 2015 , 91,	3.3	41
54	Persistent Conductivity in n-Type 3C-SiC Observed at Low Temperatures. <i>Materials Science Forum</i> , 2014 , 778-780, 265-268	0.4	2
53	Dynamical Simulation of Electron Transfer Processes in Alkanethiolate Self-Assembled Monolayers at the Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25334-25342	3.8	14
52	Orbital-Symmetry-Dependent Electron Transfer through Molecules Assembled on Metal Substrates. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 436-40	6.4	33
51	Graphene on cubic and hexagonal SiC: A comparative theoretical study. <i>Physical Review B</i> , 2012 , 86,	3.3	11
50	Coupling of excitons and defect states in boron-nitride nanostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	147
49	Toward Functional Inorganic/Organic Hybrids: Phenoxy-allyl-PTCDI Synthesis, Experimentally and Theoretically Determined Properties of the Isolated Molecule, Layer Characteristics, and the Interface Formation of Phenoxy-allyl-PTCDI on Si(111):H Determined by SXPS and DFT. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21139-21150	3.8	3
48	Many-body effects in the excitation spectrum of a defect in SiC. <i>Physical Review Letters</i> , 2010 , 105, 026401	0.4	60
47	Electron spectrum of epitaxial graphene monolayers. <i>Physical Review B</i> , 2010 , 82,	3.3	32
46	A Dynamic Landscape from Femtoseconds to Minutes for Excess Electrons at Ice/Metal Interfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 979-988	3.8	58
45	Point Defects in SiC. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1069, 1		2
44	Defects Identified in SiC and Their Implications. <i>Materials Science Forum</i> , 2008 , 600-603, 285-290	0.4	3
43	Identification of intrinsic defects in SiC: Towards an understanding of defect aggregates by combining theoretical and experimental approaches. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1281-1297	1.3	35
42	Point Defects and their Aggregation in Silicon Carbide. <i>Materials Science Forum</i> , 2007 , 556-557, 439-444	0.4	2
41	(Nitrogen-Vacancy)-Complex Formation in SiC: Experiment and Theory. <i>Materials Science Forum</i> , 2007 , 556-557, 307-312	0.4	2
40	Identification of divacancies in 4H-SiC. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 334-337	2.8	4

39	Divacancy Model for P6/P7 Centers in 4H- and 6H-SiC. <i>Materials Science Forum</i> , 2006 , 527-529, 527-530	0.4	6
38	High Energy Local Vibrational Modes of Carbon Aggregates in SiC: Experimental and Theoretical Insight. <i>Materials Science Forum</i> , 2006 , 527-529, 465-468	0.4	2
37	Divacancy and Its Identification: Theory. <i>Materials Science Forum</i> , 2006 , 527-529, 523-526	0.4	10
36	Kinetic Mechanisms for the Deactivation of Nitrogen in SiC. <i>Materials Science Forum</i> , 2006 , 527-529, 621-624	0.4	6
35	Signature of the Negative Carbon Vacancy-Antisite Complex. <i>Materials Science Forum</i> , 2006 , 527-529, 539-542	0.4	3
34	Deactivation of nitrogen donors in silicon carbide. <i>Physical Review B</i> , 2006 , 74,	3.3	13
33	Thermally stable carbon-related centers in 6H-SiC: Photoluminescence spectra and microscopic models. <i>Physical Review B</i> , 2006 , 73,	3.3	11
32	Publisher's Note: Divacancy in 4H-SiC [Phys. Rev. Lett. 96, 055501 (2006)]. <i>Physical Review Letters</i> , 2006 , 96,	7.4	10
31	Identification of the carbon antisite-vacancy pair in 4H-SiC. <i>Physical Review Letters</i> , 2006 , 96, 145501	7.4	66
30	Divacancy in 4H-SiC. <i>Physical Review Letters</i> , 2006 , 96, 055501	7.4	151
29	Kinetic Aspects of the Interstitial-Mediated Boron Diffusion in SiC. <i>Materials Science Forum</i> , 2005 , 483-485, 527-530	0.4	
28	Ab-Initio Study of Dopant Interstitials in 4H-SiC. <i>Materials Science Forum</i> , 2005 , 483-485, 523-526	0.4	9
27	Structure and vibrational spectra of carbon clusters in SiC. <i>Physical Review B</i> , 2004 , 70,	3.3	41
26	Carbon antisite clusters in SiC: A possible pathway to the DII center. <i>Physical Review B</i> , 2004 , 69,	3.3	35
25	Solubility of nitrogen and phosphorus in 4H-SiC: A theoretical study. <i>Applied Physics Letters</i> , 2004 , 85, 58-60	3.4	42
24	The Solubility and Defect Equilibrium on the n-Type Dopants Nitrogen and Phosphorus in 4H-SiC: A Theoretical Study. <i>Materials Science Forum</i> , 2004 , 457-460, 715-718	0.4	4
23	A Theoretical Study of Carbon Clusters in SiC: a Sink and a Source of Carbon Interstitials. <i>Materials Science Forum</i> , 2004 , 457-460, 449-452	0.4	5
22	Different roles of carbon and silicon interstitials in the interstitial-mediated boron diffusion in SiC. <i>Physical Review B</i> , 2004 , 70,	3.3	40

21	Defect Migration and Annealing Mechanisms. <i>Advanced Texts in Physics</i> , 2004 , 27-55		7
20	Ab initio study of the annealing of vacancies and interstitials in cubic SiC: Vacancy-interstitial recombination and aggregation of carbon interstitials. <i>Physical Review B</i> , 2004 , 69,	3.3	156
19	Ab initio study of the migration of intrinsic defects in 3CβSiC. <i>Physical Review B</i> , 2003 , 68,	3.3	215
18	Chemical termination of the CsCl-structure FeSi/Si(111) film surface and its multilayer relaxation. <i>Physical Review B</i> , 2003 , 67,	3.3	24
17	Signature of intrinsic defects in SiC: Ab initio calculations of hyperfine tensors. <i>Physical Review B</i> , 2003 , 67,	3.3	61
16	Identification and Annealing of Common Intrinsic Defect Centers. <i>Materials Science Forum</i> , 2003 , 433-436, 471-476	0.4	12
15	The Nature and Diffusion of Intrinsic Point Defects in SiC. <i>Materials Science Forum</i> , 2002 , 389-393, 471-476	0.4	26
14	Carbon Interstitials in SiC: A Model for the DII Center. <i>Materials Science Forum</i> , 2002 , 389-393, 481-484	0.4	11
13	Diffusion of clusters down aluminum islands. <i>Computational Materials Science</i> , 2002 , 23, 85-94	3.2	8
12	Interstitials in SiC: a model for the DII center. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 656-659	2.8	16
11	Boron in SiC: Structure and Kinetics. <i>Materials Science Forum</i> , 2001 , 353-356, 447-450	0.4	33
10	Efficient self-consistent method using basis splines for the investigation of interacting two-dimensional electrons in a random impurity potential. <i>Physical Review B</i> , 2001 , 64,	3.3	7
9	Self Diffusion in SiC: the Role of Intrinsic Point Defects. <i>Materials Science Forum</i> , 2001 , 353-356, 323-326	0.4	35
8	Ab Initio Study of Intrinsic Point defects and Dopant-defect Complexes in SiC: Application to Boron Diffusion. <i>Materials Science Forum</i> , 2000 , 338-342, 949-952	0.4	21
7	Pseudopotential study of binding properties of solids within generalized gradient approximations: The role of core-valence exchange correlation. <i>Physical Review B</i> , 1998 , 57, 2134-2145	3.3	174
6	Theory of Self-Diffusion in GaAs*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1997 , 200, 195-207	3.1	30
5	Ab Initio Molecular Dynamics Study of the Desorption of D2 from Si(100). <i>Physical Review Letters</i> , 1997 , 79, 701-704	7.4	65
4	Density-functional theory calculations for poly-atomic systems: electronic structure, static and elastic properties and ab initio molecular dynamics. <i>Computer Physics Communications</i> , 1997 , 107, 187-222	4.2	628

- 3 Application of generalized gradient approximations: The diamond- beta -tin phase transition in Si and Ge. *Physical Review B*, **1995**, 52, 2550-2556 3.3 121
- 2 Localization phase diagram for a disordered system in a magnetic field in two dimensions. *Journal of Physics Condensed Matter*, **1993**, 5, 6043-6054 1.8 2
- 1 Identification of Intrinsic Defects in SiC: Towards an Understanding of Defect Aggregates by Combining Theoretical and Experimental Approaches 115-145