SÃ¸ren Ulstrup

List of Publications by Year
in descending order

58 papers	2,632 citations	236925 25 h-index	182427 51 g-index
59 all docs	59 docs citations	59 times ranked	4444 citing authors

#	Article	IF	Citations
1	Visualizing band structure hybridization and superlattice effects in twisted MoS₂/WS₂ heterobilayers. 2D Materials, 2022, 9, 015032.	4.4	9
2	Direct visualization and control of SrOx segregation on semiconducting Nb doped SrTiO3 (100) surface. Journal of the Korean Physical Society, 2022, 80, 1042-1047.	0.7	4
3	Ultrafast Triggering of Insulatorâ€“Metal Transition in Two-Dimensional VSe₂. Nano Letters, 2021, 21, 1968-1975.	9.1	11
4	In Operando Angleâ€Resolved Photoemission Spectroscopy with Nanoscale Spatial Resolution: Spatial Mapping of the Electronic Structure of Twisted Bilayer Graphene. Small Science, 2021, 1, 2000075.	9.9	8
5	Switching of the electron-phonon interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow><mml assisted by hot carriers. Physical Review B, 2021, 103, .	3.2	6
6	Spectroscopic view of ultrafast charge carrier dynamics in single- and bilayer transition metal dichalcogenide semiconductors. Journal of Electron Spectroscopy and Related Phenomena, 2021, 250, 147093.	1.7	9
7	Ultrafast electronic linewidth broadening in the C <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow> core level of graphene. Physical Review B, 2021, 104, .	3.2	10
8	Pnictogens Allotropy and Phase Transformation during van der Waals Growth. Nano Letters, 2020, 20, 8258-8266.	9.1	7
9	Van Hove Singularities: Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES (Adv. Mater. 31/2020). Advanced Materials, 2020, 32, 2070230.	21.0	0
10	Visualizing Orbital Content of Electronic Bands in Anisotropic 2D Semiconducting ReSe₂. ACS Nano, 2020, 14, 7880-7891.	14.6	19
11	Momentum-resolved view of highly tunable many-body effects in a graphene/hBN field-effect device. Physical Review B, 2020, 101, .	3.2	13
12	Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES. Advanced Materials, 2020, 32, 2001656.	21.0	25
13	Direct observation of minibands in a twisted graphene/WS ₂ bilayer. Science Advances, 2020, 6, eaay6104.	10.3	39
14	Time- and momentum-resolved photoemission studies using time-of-flight momentum microscopy at a free-electron laser. Review of Scientific Instruments, 2020, 91, 013109.	1.3	72
15	Accessing the Spectral Function in a Current-Carrying Device. Physical Review Letters, 2020, 125, 236403.	7.8	12
16	Nanoscale mapping of quasiparticle band alignment. Nature Communications, 2019, 10, 3283.	12.8	20
17	Basal plane oxygen exchange of epitaxial MoS ₂ without edge oxidation. 2D Materials, 2019, 6, 045013.	4.4	22
18	Tunable electronic structure in gallium chalcogenide van der Waals compounds. Physical Review B, 2019, 100, .	3.2	6

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19	Imaging microscopic electronic contrasts at the interface of single-layer WS2 with oxide and boron nitride substrates. Applied Physics Letters, 2019, 114, 151601.	3.3	14
20	Transient hot electron dynamics in single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2019, 99, .	3.2	13
21	Momentum-resolved linear dichroism in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2019, 100, .	3.2	12
22	Layer and orbital interference effects in photoemission from transition metal dichalcogenides. Physical Review B, 2019, 100, .	3.2	11
23	Effects of Defects on Band Structure and Excitons in WS₂ Revealed by Nanoscale Photoemission Spectroscopy. ACS Nano, 2019, 13, 1284-1291.	14.6	64
24	Giant spin-splitting and gap renormalization driven by trions in single-layer WS2/h-BN heterostructures. Nature Physics, 2018, 14, 355-359.	16.7	83
25	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). Surface Science, 2018, 678, 57-64.	1.9	18
26	Emergence of a Metalâ€“Insulator Transition and High-Temperature Charge-Density Waves in VSe₂ at the Monolayer Limit. Nano Letters, 2018, 18, 5432-5438.	9.1	170
27	Electronic structure of exfoliated and epitaxial hexagonal boron nitride. Physical Review Materials, 2018, 2, .	2.4	19
28	Volatile two-dimensional electron gas in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m films. Physical Review Materials, 2018, 2, .	2.4	5
29	Quasiparticles and charge transfer at the two surfaces of the honeycomb iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2017, 96, .	3.2	9
30	Spin and valley control of free carriers in single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">WS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 95, .	3.2	43
31	How Indium Nitride Senses Water. Nano Letters, 2017, 17, 7339-7344.	9.1	18
32	NaSn₂As₂: An Exfoliatable Layered van der Waals Zintl Phase. ACS Nano, 2016, 10, 9500-9508.	14.6	39
33	Manifestation of nonlocal electron-electron interaction in graphene. Physical Review B, 2016, 94, .	3.2	14
34	Single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>MoS</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml Au(111): Band gap renormalization and substrate interaction. Physical Review B, 2016, 93, .	3.2	128
35	Spatially Resolved Electronic Properties of Single-Layer WS₂ on Transition Metal Oxides. ACS Nano, 2016, 10, 10058-10067.	14.6	31
36	Ultrafast Band Structure Control of a Two-Dimensional Heterostructure. ACS Nano, 2016, 10, 6315-6322.	14.6	90

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37	Facile electrochemical transfer of large-area single crystal epitaxial graphene from Ir(1â€‰1â€‰1). Journal Physics D: Applied Physics, 2015, 48, 115306.	2.8	23
38	Van der Waals Epitaxy of Two-Dimensional MoS₂â€“Graphene Heterostructures in Ultrahigh Vacuum. ACS Nano, 2015, 9, 6502-6510.	14.6	153
39	Electronic Structure of Epitaxial Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review Letters, 2015, 114, 046802.	7.8	140
40	Ramifications of optical pumping on the interpretation of time-resolved photoemission experiments on graphene. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 340-346.	1.7	26
41	Ultrafast electron dynamics in epitaxial graphene investigated with time- and angle-resolved photoemission spectroscopy. Journal of Physics Condensed Matter, 2015, 27, 164206.	1.8	37
42	Synthesis of Epitaxial Single-Layer MoS₂ on Au(111). Langmuir, 2015, 31, 9700-9706.	3.5	119
43	Observation of Ultrafast Free Carrier Dynamics in Single Layer MoS₂. Nano Letters, 2015, 15, 5883-5887.	9.1	138
44	Tunable Carrier Multiplication and Cooling in Graphene. Nano Letters, 2015, 15, 326-331.	9.1	80
45	Sequential oxygen and alkali intercalation of epitaxial graphene on Ir(111): enhanced many-body effects and formation of pn -interfaces. 2D Materials, 2014, 1, 025002.	4.4	36
46	Extracting the temperature of hot carriers in time- and angle-resolved photoemission. Review of Scientific Instruments, 2014, 85, 013907.	1.3	22
47	Bottom-up approach for the low-cost synthesis of graphene-alumina nanosheet interfaces using bimetallic alloys. Nature Communications, 2014, 5, 5062.	12.8	37
48	Ultrafast Dynamics of Massive Dirac Fermions in Bilayer Graphene. Physical Review Letters, 2014, 112, 257401.	7.8	96
49	Kinks in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math>Band of Graphene Induced by Electron-Phonon Coupling. Physical Review Letters, 2013, 111, 216806.	7.8	36
50	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. Physical Review B, 2013, 88, .	3.2	17
51	Electronâ€“phonon coupling in quasi-free-standing graphene. Journal of Physics Condensed Matter, 2013, 25, 094001.	1.8	25
52	Direct View of Hot Carrier Dynamics in Graphene. Physical Review Letters, 2013, 111, 027403.	7.8	308
53	Three Dirac points on the (110) surface of the topological insulator Bi_{1â^’x}Sb_x. New Journal of Physics, 2013, 15, 103011.	2.9	20
54	Publisherâ€™s Note: Kinks in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math>Band of Graphene Induced by Electron-Phonon Coupling [Phys. Rev. Lett.111, 216806 (2013)]. Physical Review Letters, 2013, 111, .	7.8	2

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55	Detecting the local transport properties and the dimensionality of transport of epitaxial graphene by a multi-point probe approach. Applied Physics Letters, 2013, 102, 033110.	3.3	10
56	High-temperature behavior of supported graphene: Electron-phonon coupling and substrate-induced doping. Physical Review B, 2012, 86, .	3.2	31
57	Oxygen Switching of the Epitaxial Grapheneâ€“Metal Interaction. ACS Nano, 2012, 6, 9551-9558.	14.6	195
58	Nonequilibrium electron-vibration coupling and conductance fluctuations in a C60junction. Physical Review B, 2012, 86, .	3.2	8