

# Søren Ulstrup

## List of Publications by Year in descending order

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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	Direct View of Hot Carrier Dynamics in Graphene. <i>Physical Review Letters</i> , 2013, 111, 027403.	7.8	308
2	Oxygen Switching of the Epitaxial Graphene-Metal Interaction. <i>ACS Nano</i> , 2012, 6, 9551-9558.	14.6	195
3	Emergence of a Metal-Insulator Transition and High-Temperature Charge-Density Waves in $VSe_2$ at the Monolayer Limit. <i>Nano Letters</i> , 2018, 18, 5432-5438.	9.1	170
4	Van der Waals Epitaxy of Two-Dimensional $MoS_2$ -Graphene Heterostructures in Ultrahigh Vacuum. <i>ACS Nano</i> , 2015, 9, 6502-6510.	14.6	153
5	Electronic Structure of Epitaxial Single-Layer $MoS_2$ . <i>Physical Review Letters</i> , 2015, 114, 046802.	7.8	140
6	Observation of Ultrafast Free Carrier Dynamics in Single Layer $MoS_2$ . <i>Nano Letters</i> , 2015, 15, 5883-5887.	9.1	138
7	Single-layer $MoS_2$ on Au(111): Band gap renormalization and substrate interaction. <i>Physical Review B</i> , 2016, 93, .	7.8	120
8	Synthesis of Epitaxial Single-Layer $MoS_2$ on Au(111). <i>Langmuir</i> , 2015, 31, 9700-9706.	3.5	119
9	Ultrafast Dynamics of Massive Dirac Fermions in Bilayer Graphene. <i>Physical Review Letters</i> , 2014, 112, 257401.	7.8	96
10	Ultrafast Band Structure Control of a Two-Dimensional Heterostructure. <i>ACS Nano</i> , 2016, 10, 6315-6322.	14.6	90
11	Giant spin-splitting and gap renormalization driven by trions in single-layer $WS_2/h$ -BN heterostructures. <i>Nature Physics</i> , 2018, 14, 355-359.	16.7	83
12	Tunable Carrier Multiplication and Cooling in Graphene. <i>Nano Letters</i> , 2015, 15, 326-331.	9.1	80
13	Time- and momentum-resolved photoemission studies using time-of-flight momentum microscopy at a free-electron laser. <i>Review of Scientific Instruments</i> , 2020, 91, 013109.	1.3	72
14	Effects of Defects on Band Structure and Excitons in $WS_2$ Revealed by Nanoscale Photoemission Spectroscopy. <i>ACS Nano</i> , 2019, 13, 1284-1291.	14.6	64
15	Spin and valley control of free carriers in single-layer $WS_2$ . <i>Physical Review B</i> , 2017, 95, .	3.2	43
16	$NaSn_2As_2$ : An Exfoliatable Layered van der Waals Zintl Phase. <i>ACS Nano</i> , 2016, 10, 9500-9508.	14.6	39
17	Direct observation of minibands in a twisted graphene/ $WS_2$ bilayer. <i>Science Advances</i> , 2020, 6, eaay6104.	10.3	39
18	Bottom-up approach for the low-cost synthesis of graphene-alumina nanosheet interfaces using bimetallic alloys. <i>Nature Communications</i> , 2014, 5, 5062.	12.8	37

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19	Ultrafast electron dynamics in epitaxial graphene investigated with time- and angle-resolved photoemission spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 164206.	1.8	37
20	Kinks in the $\text{Dirac Band}$ of Graphene Induced by Electron-Phonon Coupling. <i>Physical Review Letters</i> , 2013, 111, 216806.	7.8	36
21	Sequential oxygen and alkali intercalation of epitaxial graphene on Ir(111): enhanced many-body effects and formation of $\text{pn}$ -interfaces. <i>2D Materials</i> , 2014, 1, 025002.	4.4	36
22	High-temperature behavior of supported graphene: Electron-phonon coupling and substrate-induced doping. <i>Physical Review B</i> , 2012, 86, .	3.2	31
23	Spatially Resolved Electronic Properties of Single-Layer $\text{WS}_2$ on Transition Metal Oxides. <i>ACS Nano</i> , 2016, 10, 10058-10067.	14.6	31
24	Ramifications of optical pumping on the interpretation of time-resolved photoemission experiments on graphene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 200, 340-346.	1.7	26
25	Electron-phonon coupling in quasi-free-standing graphene. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 094001.	1.8	25
26	Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES. <i>Advanced Materials</i> , 2020, 32, 2001656.	21.0	25
27	Facile electrochemical transfer of large-area single crystal epitaxial graphene from Ir(111). <i>Journal Physics D: Applied Physics</i> , 2015, 48, 115306.	2.8	23
28	Extracting the temperature of hot carriers in time- and angle-resolved photoemission. <i>Review of Scientific Instruments</i> , 2014, 85, 013907.	1.3	22
29	Basal plane oxygen exchange of epitaxial $\text{MoS}_2$ without edge oxidation. <i>2D Materials</i> , 2019, 6, 045013.	4.4	22
30	Three Dirac points on the (110) surface of the topological insulator $\text{Bi}_2\text{Sb}$ . <i>New Journal of Physics</i> , 2013, 15, 103011.	2.9	20
31	Nanoscale mapping of quasiparticle band alignment. <i>Nature Communications</i> , 2019, 10, 3283.	12.8	20
32	Visualizing Orbital Content of Electronic Bands in Anisotropic 2D Semiconducting $\text{ReSe}_2$ . <i>ACS Nano</i> , 2020, 14, 7880-7891.	14.6	19
33	Electronic structure of exfoliated and epitaxial hexagonal boron nitride. <i>Physical Review Materials</i> , 2018, 2, .	2.4	19
34	How Indium Nitride Senses Water. <i>Nano Letters</i> , 2017, 17, 7339-7344.	9.1	18
35	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). <i>Surface Science</i> , 2018, 678, 57-64.	1.9	18
36	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. <i>Physical Review B</i> , 2013, 88, .	3.2	17

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37	Manifestation of nonlocal electron-electron interaction in graphene. Physical Review B, 2016, 94, .	3.2	14
38	Imaging microscopic electronic contrasts at the interface of single-layer WS <sub>2</sub> with oxide and boron nitride substrates. Applied Physics Letters, 2019, 114, 151601.	3.3	14
39	Transient hot electron dynamics in single-layer TaS <sub>2</sub> . Physical Review B, 2019, 99, .	3.2	13
40	Momentum-resolved view of highly tunable many-body effects in a graphene/hBN field-effect device. Physical Review B, 2020, 101, .	3.2	13
41	Ultrafast electronic linewidth broadening in the C core level of graphene. Physical Review B, 2021, 104, .	3.2	13
42	Momentum-resolved linear dichroism in bilayer MoS <sub>2</sub> . Physical Review B, 2019, 100, .	3.2	13
43	Accessing the Spectral Function in a Current-Carrying Device. Physical Review Letters, 2020, 125, 236403.	7.8	12
44	Layer and orbital interference effects in photoemission from transition metal dichalcogenides. Physical Review B, 2019, 100, .	3.2	11
45	Ultrafast Triggering of Insulator–Metal Transition in Two-Dimensional VSe <sub>2</sub> . Nano Letters, 2021, 21, 1968-1975.	9.1	11
46	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
47	Quasiparticles and charge transfer at the two surfaces of the honeycomb iridate Na <sub>2</sub> IrO <sub>2</sub> . Physical Review B, 2017, 96, .	3.2	9
48	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
49	Visualizing band structure hybridization and superlattice effects in twisted MoS <sub>2</sub> /WS <sub>2</sub> heterobilayers. 2D Materials, 2022, 9, 015032.	4.4	9
50	Nonequilibrium electron-vibration coupling and conductance fluctuations in a C <sub>60</sub> junction. Physical Review B, 2012, 86, .	3.2	8
51	In Operando Angle-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
52	Pnictogens Allotropy and Phase Transformation during van der Waals Growth. Nano Letters, 2020, 20, 8258-8266.	9.1	7
53	Tunable electronic structure in gallium chalcogenide van der Waals compounds. Physical Review B, 2019, 100, .	3.2	6
54	Switching of the electron-phonon interaction in T <sub>1</sub> C <sub>2</sub> assisted by hot carriers. Physical Review B, 2021, 103, .	3.2	6

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55	Volatile two-dimensional electron gas in ultrathin $\text{BaTiO}_3$ films. Physical Review Materials, 2018, 2, .	2.1	1
56	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
57	Publisher's Note: Kinks in the $\tilde{f}$ Band of Graphene Induced by Electron-Phonon Coupling [Phys. Rev. Lett. 111, 216806 (2013)]. Physical Review Letters, 2013, 111, .	7.8	2
58	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