Lars Thomsen

List of Publications by Year in descending order

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135 papers	6,013 citations	71102 41 h-index	76900 74 g-index
135 all docs	135 docs citations	135 times ranked	8092 citing authors

#	Article	IF	Citations
1	Probing the nature of soil organic matter. Critical Reviews in Environmental Science and Technology, 2022, 52, 4072-4093.	12.8	35
2	Arbuscular mycorrhizal symbiosis enhances water stable aggregate formation and organic matter stabilization in Fe ore tailings. Geoderma, 2022, 406, 115528.	5.1	15
3	Highly Selective Metalâ€Free Electrochemical Production of Hydrogen Peroxide on Functionalized Vertical Graphene Edges. Small, 2022, 18, e2105082.	10.0	20
4	Impact of Polymer Molecular Weight on Polymeric Photodiodes. Advanced Optical Materials, 2022, 10, 2101890.	7.3	4
5	Resolving the backbone tilt of crystalline poly(3-hexylthiophene) with resonant tender X-ray diffraction. Materials Horizons, 2022, 9, 1649-1657.	12.2	3
6	Reassessing the Significance of Reduced Aggregation and Crystallinity of Naphthalene Diimide-Based Copolymer Acceptors in All-Polymer Solar Cells. ACS Applied Polymer Materials, 2022, 4, 3270-3282.	4.4	3
7	Reconstructing Cu Nanoparticle Supported on Vertical Graphene Surfaces via Electrochemical Treatment to Tune the Selectivity of CO₂ Reduction toward Valuable Products. ACS Catalysis, 2022, 12, 4792-4805.	11.2	24
8	Introducing 4sâ€“2p Orbital Hybridization to Stabilize Spinel Oxide Cathodes for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	26
9	Introducing 4sâ€“2p Orbital Hybridization to Stabilize Spinel Oxide Cathodes for Lithiumâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	12
10	Chain Alignment and Charge Transport Anisotropy in Blade-Coated P(NDI2OD-T2)/PS Blend Films. ACS Applied Polymer Materials, 2022, 4, 5501-5514.	4.4	2
11	First demonstration of phosphate enhanced atomically dispersed bimetallic FeCu catalysts as Pt-free cathodes for high temperature phosphoric acid doped polybenzimidazole fuel cells. Applied Catalysis B: Environmental, 2021, 284, 119717.	20.2	28
12	A template-free method to synthesis high density iron single atoms anchored on carbon nanotubes for high temperature polymer electrolyte membrane fuel cells. Nano Energy, 2021, 80, 105534.	16.0	35
13	Resonant Tender X-ray Diffraction for Disclosing the Molecular Packing of Paracrystalline Conjugated Polymer Films. Journal of the American Chemical Society, 2021, 143, 1409-1415.	13.7	19
14	Crystallographicâ€Siteâ€Specific Structural Engineering Enables Extraordinary Electrochemical Performance of Highâ€Voltage LiNi_{0.5}Mn_{1.5}O₄ Spinel Cathodes for Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2101413.	21.0	52
15	High performance as-cast P3HT:PCBM devices: understanding the role of molecular weight in high regioregularity P3HT. Materials Advances, 2021, 2, 2045-2054.	5.4	14
16	Morphology and Charge Transport Properties of P(NDI2OD-T2)/Polystyrene Blends. Macromolecules, 2021, 54, 11134-11146.	4.8	8
17	Boron coordination structure at the surfaces of sodium borosilicate and aluminoborosilicate glasses by B K-edge NEXAFS. Journal of Non-Crystalline Solids, 2020, 545, 120247.	3.1	7
18	Valence Alignment of Mixed Niâ€“Fe Hydroxide Electrocatalysts through Preferential Templating on Graphene Edges for Enhanced Oxygen Evolution. ACS Nano, 2020, 14, 11327-11340.	14.6	42

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19	Direct insights into the role of epoxy groups on cobalt sites for acidic H2O2 production. Nature Communications, 2020, 11, 4181.	12.8	204
20	Enhanced Electrochemical CO₂ Reduction of Cu@Cu_xO Nanoparticles Decorated on 3D Vertical Graphene with Intrinsic sp³â€type Defect. Advanced Functional Materials, 2020, 30, 1910118.	14.9	54
21	Lyotropic Liquid Crystalline Mesophase Governs Interfacial Molecular Orientation of Conjugated Polymer Thin Films. Chemistry of Materials, 2020, 32, 6043-6054.	6.7	17
22	Highâ€Performance Allâ€Polymer Solar Cells Enabled by nâ€Type Polymers with an Ultranarrow Bandgap Down to 1.28 eV. Advanced Materials, 2020, 32, e2001476.	21.0	103
23	A Long Cycleâ€Life Highâ€Voltage Spinel Lithiumâ€Ion Battery Electrode Achieved by Siteâ€Selective Doping. Angewandte Chemie - International Edition, 2020, 59, 10594-10602.	13.8	144
24	Fluorescence and Physico-Chemical Properties of Hydrogenated Detonation Nanodiamonds. Journal of Carbon Research, 2020, 6, 7.	2.7	8
25	Enantiospecific Adsorption and Decomposition of Cysteine Enantiomers on the Chiral Cu{421}^R Surface. Journal of Physical Chemistry C, 2019, 123, 20829-20837.	3.1	8
26	Influence of alkyl side-chain type and length on the thin film microstructure and OFET performance of naphthalene diimide-based organic semiconductors. Organic Electronics, 2019, 75, 105378.	2.6	33
27	Dissociation of CH₃â€“O as a Driving Force for Methoxyacetophenone Adsorption on Si(001). Journal of Physical Chemistry C, 2019, 123, 22239-22249.	3.1	11
28	Unravelling donorâ€“acceptor film morphology formation for environmentally-friendly OPV ink formulations. Green Chemistry, 2019, 21, 5090-5103.	9.0	31
29	Iron Single Atoms on Graphene as Nonprecious Metal Catalysts for Highâ€Temperature Polymer Electrolyte Membrane Fuel Cells. Advanced Science, 2019, 6, 1802066.	11.2	164
30	Effect of Thionation on the Performance of PNDIT2-Based Polymer Solar Cells. Journal of Physical Chemistry C, 2019, 123, 12062-12072.	3.1	4
31	Tuning the Electrochemical Property of the Ultrafine Metalâ€oxide Nanoclusters by Iron Phthalocyanine as Efficient Catalysts for Energy Storage and Conversion. Energy and Environmental Materials, 2019, 2, 5-17.	12.8	32
32	Nature and Extent of Solution Aggregation Determines the Performance of P(NDI2ODâ€T2) Thinâ€Film Transistors. Advanced Electronic Materials, 2018, 4, 1700559.	5.1	64
33	Blade Coating Aligned, High-Performance, Semiconducting-Polymer Transistors. Chemistry of Materials, 2018, 30, 1924-1936.	6.7	63
34	Tuning the Molecular Weight of the Electron Accepting Polymer in Allâ€Polymer Solar Cells: Impact on Morphology and Charge Generation. Advanced Functional Materials, 2018, 28, 1707185.	14.9	65
35	Electrochemically substituted metal phthalocyanines, e-MPc (M = Co, Ni), as highly active and selective catalysts for CO₂reduction. Journal of Materials Chemistry A, 2018, 6, 1370-1375.	10.3	43
36	Thionation of naphthalene diimide molecules: Thin-film microstructure and transistor performance. Organic Electronics, 2018, 53, 287-295.	2.6	16

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37	Impact of Acceptor Fluorination on the Performance of All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 955-969.	8.0	31
38	Self-Assembly of ABC Bottlebrush Triblock Terpolymers with Evidence for Looped Backbone Conformations. Macromolecules, 2018, 51, 7178-7185.	4.8	40
39	Self-Assembly of ABC Bottlebrush Triblock Terpolymers with Evidence for Looped Backbone Conformations. Macromolecules, 2018, 51, .	4.8	3
40	Insight into thin-film stacking modes of Ï€-expanded quinoidal molecules on charge transport property via side-chain engineering. Journal of Materials Chemistry C, 2017, 5, 1935-1943.	5.5	24
41	Unconventional Molecular Weight Dependence of Charge Transport in the High Mobility nâ€type Semiconducting Polymer P(NDI2ODâ€T2). Advanced Functional Materials, 2017, 27, 1604744.	14.9	58
42	Influence of Fullerene Acceptor on the Performance, Microstructure, and Photophysics of Low Bandgap Polymer Solar Cells. Advanced Energy Materials, 2017, 7, 1602197.	19.5	38
43	Critical Role of Molecular Symmetry for Charge Transport Properties: A Paradigm Learned from Quinoidal Bithieno[3,4-b]thiophenes. Chemistry of Materials, 2017, 29, 4999-5008.	6.7	24
44	Robustp-type doping of copper oxide using nitrogen implantation. Materials Research Express, 2017, 4, 075905.	1.6	2
45	Adsorption differences between low coverage enantiomers of alanine on the chiral Cu{421}^R surface. Physical Chemistry Chemical Physics, 2017, 19, 13562-13570.	2.8	6
46	Critical Role of Pendant Group Substitution on the Performance of Efficient All-Polymer Solar Cells. Chemistry of Materials, 2017, 29, 804-816.	6.7	41
47	Accelerated ageing of molybdenum oxide. Materials Research Express, 2017, 4, 115502.	1.6	2
48	Isolating and quantifying the impact of domain purity on the performance of bulk heterojunction solar cells. Energy and Environmental Science, 2017, 10, 1843-1853.	30.8	31
49	Morphological and Device Evaluation of an Amphiphilic Block Copolymer for Organic Photovoltaic Applications. Macromolecules, 2017, 50, 4942-4951.	4.8	22
50	The Structural Origin of Electron Injection Enhancements with Fulleropyrrolidine Interlayers. Advanced Materials Interfaces, 2016, 3, 1500852.	3.7	10
51	Quick AS NEXAFS Tool(QANT): a program for NEXAFS loading and analysis developed at the Australian Synchrotron. Journal of Synchrotron Radiation, 2016, 23, 374-380.	2.4	110
52	Thermal migration of alloying agents in aluminium. Materials Research Express, 2016, 3, 116501.	1.6	3
53	Orientation and stability of a bi-functional aromatic organic molecular adsorbate on silicon. Physical Chemistry Chemical Physics, 2016, 18, 27290-27299.	2.8	4
54	Impact of Fullerene Mixing Behavior on the Microstructure, Photophysics, and Device Performance of Polymer/Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 29608-29618.	8.0	24

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55	Adsorption and Dissociation of a Bicyclic Tertiary Diamine, Triethylenediamine, on a Si(100)-2 Ã— 1 Surface. Journal of Physical Chemistry C, 2016, 120, 28672-28681.	3.1	2
56	Coulomb Enhanced Charge Transport in Semicrystalline Polymer Semiconductors. Advanced Functional Materials, 2016, 26, 8011-8022.	14.9	24
57	NEXAFS spectroscopy of conjugated polymers. European Polymer Journal, 2016, 81, 532-554.	5.4	63
58	Retention and damage in 3C-Î² SiC irradiated with He and H ions. Journal of Nuclear Materials, 2016, 469, 187-193.	2.7	18
59	Metal Evaporation-Induced Degradation of Fullerene Acceptors in Polymer/Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 2247-2254.	8.0	13
60	Chargeâ€Transport Anisotropy in a Uniaxially Aligned Diketopyrrolopyrroleâ€Based Copolymer. Advanced Materials, 2015, 27, 7356-7364.	21.0	144
61	Molecular nitrogen acceptors in ZnO nanowires induced by nitrogen plasma annealing. Physical Review B, 2015, 92, .	3.2	24
62	Extremely high negative electron affinity of diamond via magnesium adsorption. Physical Review B, 2015, 92, .	3.2	34
63	Manipulating the orientation of an organic adsorbate on silicon: a NEXAFS study of acetophenone on Si(0â€‰0â€‰1). Journal of Physics Condensed Matter, 2015, 27, 054002.	1.8	10
64	A facile approach to alleviate photochemical degradation in high efficiency polymer solar cells. Journal of Materials Chemistry A, 2015, 3, 16313-16319.	10.3	38
65	A step towards long-wavelength protein crystallography: subjecting protein crystals to a vacuum. Journal of Applied Crystallography, 2015, 48, 913-916.	4.5	3
66	Macroscopic and high-throughput printing of aligned nanostructured polymer semiconductors for MHz large-area electronics. Nature Communications, 2015, 6, 8394.	12.8	280
67	Diamond structure recovery during ion irradiation at elevated temperatures. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 331-335.	1.4	9
68	Unraveling the Morphology of High Efficiency Polymer Solar Cells Based on the Donor Polymer PBDTTTâ€‰FT. Advanced Energy Materials, 2015, 5, 1401259.	19.5	100
69	Performance, morphology and photophysics of high open-circuit voltage, low band gap all-polymer solar cells. Energy and Environmental Science, 2015, 8, 332-342.	30.8	115
70	Direct observation of phonon emission from hot electrons: spectral features in diamond secondary electron emission. Journal of Physics Condensed Matter, 2014, 26, 395008.	1.8	4
71	Deuterium retention and near-surface modification of ion-irradiated diamond exposed to fusion-relevant plasma. Nuclear Fusion, 2014, 54, 073003.	3.5	6
72	D and D/He plasma interactions with diamond: Surface modification and D retention. Diamond and Related Materials, 2014, 49, 103-110.	3.9	6

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73	Ion irradiated graphite exposed to fusion-relevant deuterium plasma. Nuclear Instruments & Methods in Physics Research B, 2014, 340, 21-26.	1.4	4
74	On the Relation between Morphology and FET Mobility of Poly(3â€alkylthiophene)s at the Polymer/SiO₂ and Polymer/Air Interface. Advanced Functional Materials, 2014, 24, 1994-2004.	14.9	17
75	A study of the initial film growth of PEG-like plasma polymer films via XPS and NEXAFS. Applied Surface Science, 2014, 288, 288-294.	6.1	24
76	Near-edge X-ray absorption fine-structure spectroscopy of naphthalene diimide-thiophene co-polymers. Journal of Chemical Physics, 2014, 140, 164710.	3.0	27
77	Structure Influence on Charge Transport in Naphthalenediimideâ€“Thiophene Copolymers. Chemistry of Materials, 2014, 26, 6796-6804.	6.7	51
78	Determining the Electronic Confinement of a Subsurface Metallic State. ACS Nano, 2014, 8, 10223-10228.	14.6	11
79	Photoelectron emission from lithiated diamond. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2209-2222.	1.8	30
80	XPS and NEXAFS study of fluorine modified TiO2 nano-ovoids reveals dependence of Ti3+ surface population on the modifying agent. RSC Advances, 2014, 4, 20649.	3.6	37
81	NEXAFS and XPS characterisation of carbon functional groups of fresh and aged biochars. Organic Geochemistry, 2014, 77, 1-10.	1.8	188
82	Structureâ€“Function Relationships of High-Electron Mobility Naphthalene Diimide Copolymers Prepared Via Direct Arylation. Chemistry of Materials, 2014, 26, 6233-6240.	6.7	105
83	Influence of Fluorination and Molecular Weight on the Morphology and Performance of PTB7:PC₇₁BM Solar Cells. Journal of Physical Chemistry C, 2014, 118, 9918-9929.	3.1	43
84	The templated growth of a chiral transition metal chalcogenide. Surface Science, 2014, 629, 94-101.	1.9	4
85	An unconventional method for measuring the TcL₃-edge of technetium compounds. Journal of Synchrotron Radiation, 2014, 21, 1275-1281.	2.4	7
86	Observation of a Distinct Surface Molecular Orientation in Films of a High Mobility Conjugated Polymer. Journal of the American Chemical Society, 2013, 135, 1092-1101.	13.7	150
87	The impact of tetrahedral capping groups and device processing conditions on the crystal packing, thin film features and OFET hole mobility of 7,14-bis(ethynyl)dibenzo[b,def]chrysenes. Journal of Materials Chemistry C, 2013, 1, 6299.	5.5	17
88	NEXAFS spectroscopy of CVD diamond films exposed to fusion relevant hydrogen plasma. Diamond and Related Materials, 2013, 34, 45-49.	3.9	19
89	Influence of Cationic Surfactants on the Formation and Surface Oxidation States of Gold Nanoparticles Produced via Laser Ablation. Langmuir, 2013, 29, 12452-12462.	3.5	32
90	Investigating the orderâ€“disorder phase transition in Nd2â^'xYxZr2O7via diffraction and spectroscopy. Dalton Transactions, 2013, 42, 14875.	3.3	31

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91	Chemically-synthesised, atomically-precise gold clusters deposited and activated on titania. Physical Chemistry Chemical Physics, 2013, 15, 3917.	2.8	111
92	Critical Role of Alkyl Chain Branching of Organic Semiconductors in Enabling Solution-Processed N-Channel Organic Thin-Film Transistors with Mobility of up to 3.50 cm² V^{â€“1} s^{â€“1}. Journal of the American Chemical Society, 2013, 135, 2338-2349.	13.7	379
93	Diamond Surfaces with Airâ€Stable Negative Electron Affinity and Giant Electron Yield Enhancement. Advanced Functional Materials, 2013, 23, 5608-5614.	14.9	58
94	p-f hybridization in the ferromagnetic semiconductor HoN. Applied Physics Letters, 2012, 100, 072108.	3.3	10
95	Investigating the Enantioselectivity of Alanine on a Chiral Cu{421}^R Surface. Journal of Physical Chemistry C, 2012, 116, 9472-9480.	3.1	19
96	Microstructure of Polycrystalline PBTTT Films: Domain Mapping and Structure Formation. ACS Nano, 2012, 6, 1849-1864.	14.6	104
97	Single Crystal X-ray, AFM, NEXAFS, and OFET Studies on Angular Polycyclic Aromatic Silyl-Capped 7,14-Bis(ethynyl)dibenzo[b,def]chrysenes. Crystal Growth and Design, 2012, 12, 725-731.	3.0	29
98	A multilayered approach to polyfluorene water-based organic photovoltaics. Solar Energy Materials and Solar Cells, 2012, 102, 114-124.	6.2	65
99	Photoreduction Kinetics of Sodium Tetrachloroaurate under Synchrotron Soft X-ray Exposure. Langmuir, 2011, 27, 8099-8104.	3.5	63
100	New Insights into the Substrateâ€“Plasma Polymer Interface. Journal of Physical Chemistry B, 2011, 115, 6495-6502.	2.6	23
101	Surface and Bulk Structural Characterization of a High-Mobility Electron-Transporting Polymer. Macromolecules, 2011, 44, 1530-1539.	4.8	105
102	Determining the Orientation of a Chiral Substrate Using Full-Hemisphere Angle-Resolved Photoelectron Spectroscopy. Physical Review Letters, 2011, 107, 175501.	7.8	5
103	Field ionization detectors: a comparative model. Measurement Science and Technology, 2011, 22, 015901.	2.6	3
104	The Current Performance of the Wide Range (90â€“2500 eV) Soft X-ray Beamline at the Australian Synchrotron. AIP Conference Proceedings, 2010, , .	0.4	168
105	Alkylâ€Chainâ€Lengthâ€Independent Hole Mobility via Morphological Control with Poly(3â€alkylthiophene) Nanofibers. Advanced Functional Materials, 2010, 20, 792-802.	14.9	89
106	Sculpting nanoscale precipitation patterns in nanocomposite thin films via hyperthermal ion deposition. Applied Physics Letters, 2010, 97, .	3.3	14
107	Electronic States Studies of ZnOâ•TiO[sub 2] Core-Shell Nanostructure by Photoelectron Spectroscopy and X-Ray Absorption Near Edge Spectroscopy. , 2010, , .		0
108	One-Step Method for Generating PEG-Like Plasma Polymer Gradients: Chemical Characterization and Analysis of Protein Interactions. Langmuir, 2010, 26, 13987-13994.	3.5	48

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109	Vertical Stratification and Interfacial Structure in P3HT:PCBM Organic Solar Cells. Journal of Physical Chemistry C, 2010, 114, 15797-15805.	3.1	132
110	Photoabsorption and photoemission of magnesium diboride at the Mg K edge. Journal of Physics Condensed Matter, 2009, 21, 405701.	1.8	4
111	The adsorption and stability of sulfur containing amino acids on Cu{531}. Surface Science, 2009, 603, 1253-1261.	1.9	44
112	Evolution of Laterally Phase-Separated Polyfluorene Blend Morphology Studied by X-ray Spectromicroscopy. Macromolecules, 2009, 42, 3347-3352.	4.8	43
113	A Quantitative Study of PCBM Diffusion during Annealing of P3HT:PCBM Blend Films. Macromolecules, 2009, 42, 8392-8397.	4.8	247
114	Role of Solvent Trapping Effects in Determining the Structure and Morphology of Ternary Blend Organic Devices. Macromolecules, 2009, 42, 3098-3103.	4.8	42
115	NEXAFS microscopy of polymeric materials: Successes and challenges encountered when characterizing organic devices. Journal of Physics: Conference Series, 2009, 186, 012102.	0.4	3
116	Highly resilient field emission from aligned single-walled carbon nanotube arrays chemically attached to n-type silicon. Journal of Materials Chemistry, 2008, 18, 5753.	6.7	19
117	Evolution of the nanomorphology of photovoltaic polyfluorene blends: sub-100 nm resolution with x-ray spectromicroscopy. Nanotechnology, 2008, 19, 424015.	2.6	47
118	X-ray Microscopy of Photovoltaic Polyfluorene Blends:Â Relating Nanomorphology to Device Performance. Macromolecules, 2007, 40, 3263-3270.	4.8	102
119	A simple method for creating nanotube field emitters from a surfactant dispersion. Surface Science, 2007, 601, 5775-5778.	1.9	0
120	Nanoscale Quantitative Chemical Mapping of Conjugated Polymer Blends. Nano Letters, 2006, 6, 1202-1206.	9.1	112
121	Rapid Deposition of LDS/Carbon Nanotube Composites: A Novel Nanotube Field Emission Source. , 2006, , .		0
122	A NEXAFS orientation study of Î³-aminopropyltriethoxysilane on zinc oxide surfaces. Surface and Interface Analysis, 2006, 38, 1139-1145.	1.8	19
123	X-ray Spectromicroscopy of Polymer/Fullerene Composites: Quantitative Chemical Mapping. Small, 2006, 2, 1432-1435.	10.0	57
124	A simple polarimeter for quantifying synchrotron polarization. Journal of Electron Spectroscopy and Related Phenomena, 2006, 151, 208-214.	1.7	8
125	Methods in carbon K-edge NEXAFS: Experiment and analysis. Journal of Electron Spectroscopy and Related Phenomena, 2006, 151, 105-120.	1.7	149
126	Surface reactions between CO2 and H over K-modified Cu(001). Vacuum, 2006, 81, 25-31.	3.5	10

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127	PTMS alignment on Aluminium Oxide. , 2006, , .		0
128	Adsorption and orientation kinetics of self-assembled films of octadecyltrimethoxysilane on aluminium oxide surfaces. Surface and Interface Analysis, 2005, 37, 472-477.	1.8	15
129	Measuring the Tilt Angle of ODTMS Self-Assembled Monolayers on Al Oxide Surfaces. Synthetic Metals, 2005, 154, 9-12.	3.9	2
130	Towards fabrication of synthetic metal nanowires. Synthetic Metals, 2005, 154, 33-36.	3.9	0
131	Measurement of molecular order and orientation in nanoscale organic films. Synthetic Metals, 2005, 152, 21-24.	3.9	4
132	Understanding the Conformational Dynamics of Organosilanes:Â Î³-APS on Zinc Oxide Surfaces. Langmuir, 2002, 18, 148-154.	3.5	25
133	Determining the angular admittance of a cylindrical mirror analyser. Surface and Interface Analysis, 2002, 34, 782-785.	1.8	0
134	Adsorption of hydrogen on clean and potassium modified low index copper surfaces: Cu(100) and Cu(110). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1988-1992.	2.1	7
135	Adsorption of organosilanes on iron and aluminium oxide surfaces. Surface and Interface Analysis, 1997, 25, 931-936.	1.8	53