

Andrey Turchanin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8324294/andrey-turchanin-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

107
papers

4,485
citations

29
h-index

66
g-index

128
ext. papers

5,168
ext. citations

10
avg, IF

5.51
L-index

#	Paper	IF	Citations
107	Photoactive ultrathin molecular nanosheets with reversible lanthanide binding terpyridine centers. <i>Nanoscale</i> , 2021 ,	7.7	1
106	Towards synthetic unimolecular Fe ₂ S ₂ -photocatalysts sensitized by perylene dyes. <i>Dyes and Pigments</i> , 2021 , 109940	4.6	1
105	Rhodium-Complex-Functionalized and Polydopamine-Coated CdSe@CdS Nanorods for Photocatalytic NAD Reduction.. <i>ACS Applied Nano Materials</i> , 2021 , 4, 12913-12919	5.6	0
104	A Molecular Photosensitizer in a Porous Block Copolymer Matrix-Implications for the Design of Photocatalytically Active Membranes. <i>Chemistry - A European Journal</i> , 2021 , 27, 17049-17058	4.8	0
103	Tuning exciton recombination rates in doped transition metal dichalcogenides. <i>Optical Materials: X</i> , 2021 , 12, 100097	1.7	0
102	Cobaloxime Complex Salts: Synthesis, Patterning on Carbon Nanomembranes and Heterogeneous Hydrogen Evolution Studies. <i>Chemistry - A European Journal</i> , 2021 , 27, 16896-16903	4.8	5
101	Sol-Gel Processing of Water-Soluble Carbon Nitride Enables High-Performance Photoanodes*. <i>ChemSusChem</i> , 2021 , 14, 2170-2179	8.3	5
100	Polyampholytic Graft Copolymers as Matrix for TiO ₂ /Eosin Y/[Mo S ₂] Hybrid Materials and Light-Driven Catalysis. <i>Chemistry - A European Journal</i> , 2021 , 27, 16924-16929	4.8	1
99	Odd-Even Effect in Electron Beam Irradiation of Hybrid Aromatic-Aliphatic Self-Assembled Monolayers of Fatty Acid. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9310-9318	3.8	0
98	1D p-n Junction Electronic and Optoelectronic Devices from Transition Metal Dichalcogenide Lateral Heterostructures Grown by One-Pot Chemical Vapor Deposition Synthesis. <i>Advanced Functional Materials</i> , 2021 , 31, 2101086	15.6	7
97	Inhibition of Lithium Dendrite Formation in Lithium Metal Batteries via Regulated Cation Transport through Ultrathin Sub-Nanometer Porous Carbon Nanomembranes. <i>Advanced Energy Materials</i> , 2021 , 11, 2100666	21.8	15
96	Energy-Level Alignment at Interfaces between Transition-Metal Dichalcogenide Monolayers and Metal Electrodes Studied with Kelvin Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13551-13559	3.8	0
95	Thiophen-basierte konjugierte acetylenische Polymere mit dualen aktiven Zentren für effiziente Cokatalysator-freie photoelektrochemische Wasserreduktion im alkalischen Medium. <i>Angewandte Chemie</i> , 2021 , 133, 19025-19031	3.6	0
94	Thiophene-Based Conjugated Acetylenic Polymers with Dual Active Sites for Efficient Co-Catalyst-Free Photoelectrochemical Water Reduction in Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18876-18881	16.4	7
93	Hybrid Dielectric Metasurfaces for Enhancing Second-Harmonic Generation in Chemical Vapor Deposition Grown MoS ₂ Monolayers. <i>ACS Photonics</i> , 2021 , 8, 218-227	6.3	9
92	Low-energy electron irradiation induced synthesis of molecular nanosheets: influence of the electron beam energy. <i>Faraday Discussions</i> , 2021 , 227, 61-79	3.6	14
91	Giant persistent photoconductivity in monolayer MoS ₂ field-effect transistors. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	13

90	Lateral Heterostructures: 1D p-n Junction Electronic and Optoelectronic Devices from Transition Metal Dichalcogenide Lateral Heterostructures Grown by One-Pot Chemical Vapor Deposition Synthesis (Adv. Funct. Mater. 27/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170198	15.6	
89	Synthesis of Wet-Chemically Prepared Porous-Graphene Single Layers on Si/SiO ₂ Substrate Increasing the Photoluminescence of MoS ₂ in Heterostructures. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100783	4.6	1
88	pH sensors based on amino-terminated carbon nanomembrane and single-layer graphene van der Waals heterostructures. <i>Applied Physics Reviews</i> , 2021 , 8, 031410	17.3	4
87	A Study in Red: The Overlooked Role of Azo-Moieties in Polymeric Carbon Nitride Photocatalysts with Strongly Extended Optical Absorption. <i>Chemistry - A European Journal</i> , 2021 , 27, 17188-17202	4.8	1
86	Synthesis of Wet-Chemically Prepared Porous-Graphene Single Layers on Si/SiO ₂ Substrate Increasing the Photoluminescence of MoS ₂ in Heterostructures (Adv. Mater. Interfaces 17/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170095	4.6	
85	Molecularly Engineered Black Phosphorus Heterostructures with Improved Ambient Stability and Enhanced Charge Carrier Mobility. <i>Advanced Materials</i> , 2021 , 33, e2105694	24	3
84	Wet-chemical synthesis of solution-processible porous graphene via defect-driven etching. <i>Carbon</i> , 2021 , 185, 568-577	10.4	1
83	Scalable one-step production of electrochemically exfoliated graphene decorated with transition metal oxides for high-performance supercapacitors. <i>Nanoscale</i> , 2021 , 13, 15859-15868	7.7	1
82	Solution-Based Self-Assembly and Stability of Ruthenium(II) Tris-bipyridyl Monolayers on Gold. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
81	Photocatalytically active block copolymer hybrid micelles from double hydrophilic block copolymers. <i>European Polymer Journal</i> , 2020 , 140, 110037	5.2	3
80	Polyampholytic Poly(dehydroalanine) Graft Copolymers as Smart Templates for pH-Controlled Formation of Alloy Nanoparticles. <i>Macromolecules</i> , 2020 , 53, 4511-4523	5.5	5
79	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. <i>ACS Nano</i> , 2020 , 14, 7280-7286	16.7	27
78	Controlling interlayer excitons in MoS layers grown by chemical vapor deposition. <i>Nature Communications</i> , 2020 , 11, 2391	17.4	36
77	Scanning-Probe-Induced Assembling of Gold Striations on Mono- and Bi-Layered MoS ₂ on SiO ₂ . <i>MRS Advances</i> , 2020 , 5, 2201-2207	0.7	0
76	Embedding molecular photosensitizers and catalysts in nanoporous block copolymer membranes for visible-light driven hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6238-6244	13	10
75	Copper Thiophosphate (Cu ₃ PS ₄) as Electrode for Sodium-Ion Batteries with Ether Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 1910583	15.6	8
74	Optically Triggered Control of the Charge Carrier Density in Chemically Functionalized Graphene Field Effect Transistors. <i>Chemistry - A European Journal</i> , 2020 , 26, 6473-6478	4.8	8
73	Plasmonic Metasurfaces Situated on Ultrathin Carbon Nanomembranes. <i>ACS Photonics</i> , 2020 , 7, 1060-1066		6

72	Vanishing influence of the band gap on the charge exchange of slow highly charged ions in freestanding single-layer MoS ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	8
71	Smart Molecular Nanosheets for Advanced Preparation of Biological Samples in Electron Cryo-Microscopy. <i>ACS Nano</i> , 2020 , 14, 9972-9978	16.7	8
70	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
69	Water-Soluble Polymeric Carbon Nitride Colloidal Nanoparticles for Highly Selective Quasi-Homogeneous Photocatalysis. <i>Angewandte Chemie</i> , 2020 , 132, 495-503	3.6	12
68	Water-Soluble Polymeric Carbon Nitride Colloidal Nanoparticles for Highly Selective Quasi-Homogeneous Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 487-495	16.4	45
67	High optical quality of MoS ₂ monolayers grown by chemical vapor deposition. <i>2D Materials</i> , 2020 , 7, 015011	5.9	40
66	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. <i>Advanced Materials</i> , 2020 , 32, e2003826	24	11
65	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (Adv. Mater. 47/2020). <i>Advanced Materials</i> , 2020 , 32, 2070354	24	
64	Facile Resist-Free Nanopatterning of Monolayers of MoS ₂ by Focused Ion-Beam Milling. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000858	4.6	4
63	Electrochemical delamination assisted transfer of molecular nanosheets. <i>Nanoscale</i> , 2020 , 12, 8656-8663	3.7	5
62	Freestanding carbon nanomembranes and graphene monolayers nanopatterned via EUV interference lithography. <i>2D Materials</i> , 2019 , 6, 021002	5.9	16
61	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie</i> , 2019 , 131, 10476-10482	3.6	5
60	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10368-10374	16.4	24
59	Bottom-Up Synthesis of Graphene Monolayers with Tunable Crystallinity and Porosity. <i>ACS Nano</i> , 2019 , 13, 7310-7322	16.7	18
58	Polymer Brushes: Polymer Brushes on Hexagonal Boron Nitride (Small 19/2019). <i>Small</i> , 2019 , 15, 1970099	0.1	1
57	Synergy of Photoinduced Force Microscopy and Tip-Enhanced Raman Spectroscopy: A Correlative Study on MoS ₂ . <i>ACS Photonics</i> , 2019 , 6, 1191-1198	6.3	8
56	Tailoring Photoluminescence from MoS ₂ Monolayers by Mie-Resonant Metasurfaces. <i>ACS Photonics</i> , 2019 , 6, 1002-1009	6.3	44
55	Poly(1,4-Diethynylbenzene) Gradient Homojunction with Enhanced Charge Carrier Separation for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2019 , 31, e1900961	24	35

54	Controlled growth of transition metal dichalcogenide monolayers using Knudsen-type effusion cells for the precursors. <i>JPhys Materials</i> , 2019 , 2, 016001	4.2	25
53	Polymer Brushes on Hexagonal Boron Nitride. <i>Small</i> , 2019 , 15, e1805228	11	12
52	Preparation of Carbon Nanomembranes without Chemically Active Groups. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31176-31181	9.5	10
51	Controlling second-harmonic diffraction by nano-patterning MoS monolayers. <i>Optics Express</i> , 2019 , 27, 35475-35484	3.3	13
50	Synthesis of Molecular 2D Materials via Low-energy Electron Induced Chemical Reactions. <i>Chimia</i> , 2019 , 73, 473-479	1.3	8
49	Towards Covalent Photosensitizer-Polyoxometalate Dyads-Bipyridyl-Functionalized Polyoxometalates and Their Transition Metal Complexes. <i>Molecules</i> , 2019 , 24,	4.8	3
48	Layered material platform for surface plasmon resonance biosensing. <i>Scientific Reports</i> , 2019 , 9, 20286	4.9	33
47	Lateral heterostructures of two-dimensional materials by electron-beam induced stitching. <i>Carbon</i> , 2018 , 128, 106-116	10.4	17
46	Tracking down the origin of peculiar vibrational spectra of aromatic self-assembled thiolate monolayers. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29918-29930	3.6	3
45	Stop-Frame Filming and Discovery of Reactions at the Single-Molecule Level by Transmission Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 2509-2520	16.7	38
44	Vapor Phase Exchange of Self-Assembled Monolayers for Engineering of Biofunctional Surfaces. <i>Langmuir</i> , 2017 , 33, 3847-3854	4	6
43	Transferable Organic Semiconductor Nanosheets for Application in Electronic Devices. <i>Advanced Materials</i> , 2017 , 29, 1606283	24	6
42	Graphene Growth by Conversion of Aromatic Self-Assembled Monolayers. <i>Annalen Der Physik</i> , 2017 , 529, 1700168	2.6	7
41	Carbon Nanomembranes: Carbon Nanomembranes (Adv. Mater. 29/2016). <i>Advanced Materials</i> , 2016 , 28, 6263	24	1
40	Direct Growth of Patterned Graphene. <i>Small</i> , 2016 , 12, 1440-5	11	14
39	Electron beam controlled covalent attachment of small organic molecules to graphene. <i>Nanoscale</i> , 2016 , 8, 2711-9	7.7	24
38	Carbon Nanomembranes. <i>Advanced Materials</i> , 2016 , 28, 6075-103	24	105
37	Hybrid van der Waals heterostructures of zero-dimensional and two-dimensional materials. <i>Nanoscale</i> , 2015 , 7, 13393-7	7.7	22

36	An atomically thin matter-wave beamsplitter. <i>Nature Nanotechnology</i> , 2015 , 10, 845-8	28.7	36
35	Threshold and efficiency for perforation of 1 nm thick carbon nanomembranes with slow highly charged ions. <i>2D Materials</i> , 2015 , 2, 035009	5.9	18
34	All-carbon vertical van der Waals heterostructures: non-destructive functionalization of graphene for electronic applications. <i>Advanced Materials</i> , 2014 , 26, 4831-7	24	45
33	Layer-by-layer assembled heteroatom-doped graphene films with ultrahigh volumetric capacitance and rate capability for micro-supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 4552-8	24	260
32	Functional Single-Layer Graphene Sheets from Aromatic Monolayers (Adv. Mater. 30/2013). <i>Advanced Materials</i> , 2013 , 25, 4145-4145	24	
31	A universal scheme to convert aromatic molecular monolayers into functional carbon nanomembranes. <i>ACS Nano</i> , 2013 , 7, 6489-97	16.7	119
30	Functional single-layer graphene sheets from aromatic monolayers. <i>Advanced Materials</i> , 2013 , 25, 4146-51	51	52
29	Atmospheric Pressure, Temperature-Induced Conversion of Organic Monolayers into Nanocrystalline Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12295-12303	3.8	19
28	Carbon nanomembranes from self-assembled monolayers: Functional surfaces without bulk. <i>Progress in Surface Science</i> , 2012 , 87, 108-162	6.6	88
27	Structural investigation of 1,1Rbiphenyl-4-thiol self-assembled monolayers on Au(111) by scanning tunneling microscopy and low-energy electron diffraction. <i>Langmuir</i> , 2012 , 28, 13905-11	4	47
26	Nitrogen-doped graphene and its iron-based composite as efficient electrocatalysts for oxygen reduction reaction. <i>ACS Nano</i> , 2012 , 6, 9541-50	16.7	578
25	Three-dimensional nitrogen and boron co-doped graphene for high-performance all-solid-state supercapacitors. <i>Advanced Materials</i> , 2012 , 24, 5130-5	24	1164
24	Conversion of self-assembled monolayers into nanocrystalline graphene: structure and electric transport. <i>ACS Nano</i> , 2011 , 5, 3896-904	16.7	83
23	Energy-filtered transmission electron microscopy of biological samples on highly transparent carbon nanomembranes. <i>Ultramicroscopy</i> , 2011 , 111, 342-9	3.1	26
22	Mechanically stacked 1-nm-thick carbon nanosheets: ultrathin layered materials with tunable optical, chemical, and electrical properties. <i>Small</i> , 2011 , 7, 874-83	11	48
21	Single-walled carbon nanotubes and nanocrystalline graphene reduce beam-induced movements in high-resolution electron cryo-microscopy of ice-embedded biological samples. <i>Applied Physics Letters</i> , 2011 , 99, 133701	3.4	12
20	Fabrication of metal patterns on freestanding graphenoid nanomembranes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6D5-C6D10	1.3	16
19	Janus-Nanomembranen: eine allgemein einsetzbare Basis für Chemie in zwei Dimensionen. <i>Angewandte Chemie</i> , 2010 , 122, 8671-8675	3.6	11

18	Janus nanomembranes: a generic platform for chemistry in two dimensions. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8493-7	16.4	80
17	Direct e-beam writing of 1 nm thin carbon nanoribbons. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 3059		19
16	One Nanometer Thin Carbon Nanosheets with Tunable Conductivity and Stiffness. <i>Advanced Materials</i> , 2009 , 21, 1233-1237	24	187
15	Chemically functionalized carbon nanosieves with 1-nm thickness. <i>Small</i> , 2009 , 5, 2651-5	11	32
14	Molecular mechanisms of electron-induced cross-linking in aromatic SAMs. <i>Langmuir</i> , 2009 , 25, 7342-52	4	118
13	On the release of hydrogen from the S-H groups in the formation of self-assembled monolayers of thiols. <i>Langmuir</i> , 2009 , 25, 10435-8	4	80
12	On the influence of bandstructure on transport properties of magnetic tunnel junctions with Co ₂ Mn _{1-x} FexSi single and multilayer electrode. <i>Journal of Applied Physics</i> , 2008 , 104, 043918	2.5	13
11	Metallization of Organic Monolayers: Electroless Deposition of Cu onto Cross-Linked Aromatic Self-Assembled Monolayers. <i>Zeitschrift Fur Physikalische Chemie</i> , 2008 , 222, 917-926	3.1	13
10	Molecular Self-Assembly, Chemical Lithography, and Biochemical Tweezers: A Path for the Fabrication of Functional Nanometer-Scale Protein Arrays. <i>Advanced Materials</i> , 2008 , 20, 471-477	24	92
9	Fabrication of molecular nanotemplates in self-assembled monolayers by extreme-ultraviolet-induced chemical lithography. <i>Small</i> , 2007 , 3, 2114-9	11	78
8	High thermal stability of cross-linked aromatic self-assembled monolayers: Nanopatterning via selective thermal desorption. <i>Applied Physics Letters</i> , 2007 , 90, 053102	3.4	63
7	Effect of vertical temperature variation on the oscillatory wetting instability in a fluid Ga-Pb alloy. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 4146-9	3.6	
6	Oscillatory wetting instability induced by liquid-liquid decomposition in a Ga-Pb alloy. <i>Journal of Chemical Physics</i> , 2004 , 120, 11171-82	3.9	16
5	Surface freezing and wetting in GaPb alloy: Second harmonic and plasma generation study. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 5285-5290	3.6	13
4	Surface freezing in liquid GaBi alloys: optical second harmonic and plasma generation study. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 647-654	3.6	34
3	2D van der Waals Heterojunction of Organic and Inorganic Monolayers for High Responsivity Phototransistors. <i>Advanced Functional Materials</i> , 2105444	15.6	8
2	All-optical polarization and amplitude modulation of second-harmonic generation in atomically thin semiconductors. <i>Nature Photonics</i> ,	33.9	12
1	Synthesis and Nanoscale Characterization of Hierarchically Assembled Molecular Nanosheets. <i>Advanced Materials Interfaces</i> , 2102389	4.6	

