

# Andrey Sosorev

## List of Publications by Year in descending order

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31  
papers

456  
citations

687220

13  
h-index

794469

19  
g-index

37  
all docs

37  
docs citations

37  
times ranked

557  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibiting Low-Frequency Vibrations Explains Exceptionally High Electron Mobility in 2,5-Difluoro-7,7,8,8-tetracyanoquinodimethane (F <sub>2</sub> -TCNQ) Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2875-2880.	2.1	39
2	Fluorinated Thiophene-Phenylene Co-Oligomers for Optoelectronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9507-9519.	4.0	38
3	Impact of terminal substituents on the electronic, vibrational and optical properties of thiophene-phenylene co-oligomers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11578-11588.	1.3	36
4	Role of intermolecular charge delocalization and its dimensionality in efficient band-like electron transport in crystalline 2,5-difluoro-7,7,8,8-tetracyanoquinodimethane (F <sub>2</sub> -TCNQ). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25478-25486.	1.3	28
5	Charge-Transfer Complexes of Conjugated Polymers. <i>Israel Journal of Chemistry</i> , 2014, 54, 650-673.	1.0	27
6	Relationship between electron-phonon interaction and low-frequency Raman anisotropy in high-mobility organic semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18912-18918.	1.3	23
7	Large-Size Single-Crystal Oligothiophene-Based Monolayers for Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6315-6324.	4.0	23
8	Simple charge transport model for efficient search of high-mobility organic semiconductor crystals. <i>Materials and Design</i> , 2020, 192, 108730.	3.3	22
9	Intrachain Aggregation of Charge-Transfer Complexes in Conjugated Polymer:Acceptor Blends from Photoluminescence Quenching. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6972-6978.	1.5	16
10	Unraveling the unusual effect of fluorination on crystal packing in an organic semiconductor. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1665-1673.	1.3	16
11	Non-Local Electron-Phonon Interaction in Naphthalene Diimide Derivatives, its Experimental Probe and Impact on Charge-Carrier Mobility. <i>Advanced Electronic Materials</i> , 2021, 7, 2001281.	2.6	16
12	Hot kinetic model as a guide to improve organic photovoltaic materials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3658-3671.	1.3	15
13	Ground-State Geometry and Vibrations of Polyphenylenevinylene Oligomers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3232-3239.	2.1	14
14	Synthesis, characterization and organic field-effect transistors applications of novel tetrathienoacene derivatives. <i>Dyes and Pigments</i> , 2021, 185, 108911.	2.0	12
15	Impact of Low-Frequency Vibrations on Charge Transport in High-Mobility Organic Semiconductors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800485.	1.2	11
16	Impact of N-substitution on structural, electronic, optical, and vibrational properties of a thiophene-phenylene co-oligomer. <i>RSC Advances</i> , 2020, 10, 28128-28138.	1.7	11
17	Toward probing of the local electron-phonon interaction in small-molecule organic semiconductors with Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 174303.	1.2	11
18	Suppression of dynamic disorder by electrostatic interactions in structurally close organic semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15485-15491.	1.3	10

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19	Threshold-like complexation of conjugated polymers with small molecule acceptors in solution within the neighbor-effect model. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4684-4696.	1.3	9
20	Luminescent High-Mobility 2D Organic Semiconductor Single Crystals. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	8
21	Surface-Enhanced Raman Spectroscopy of 2D Organic Semiconductor Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27242-27250.	1.5	7
22	Organic nanoelectronics inside us: charge transport and localization in RNA could orchestrate ribosome operation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7037-7047.	1.3	7
23	Tuning of Molecular Electrostatic Potential Enables Efficient Charge Transport in Crystalline Azaacenes: A Computational Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5654.	1.8	6
24	Spectroscopic Assessment of Charge-Carrier Mobility in Crystalline Organic Semiconductors. <i>Advanced Electronic Materials</i> , 0, , 2100579.	2.6	6
25	Method for Fast Estimation of Lattice Distortion Energy in Organic Semiconductors. <i>JETP Letters</i> , 2019, 110, 193-199.	0.4	5
26	Structure-based rational design of an enhanced fluorogen-activating protein for fluorogens based on GFP chromophore. <i>Communications Biology</i> , 2022, 5, .	2.0	5
27	Threshold formation of an intermolecular charge transfer complex of a semiconducting polymer. <i>JETP Letters</i> , 2010, 91, 351-356.	0.4	4
28	Neighbor Effect in Complexation of a Conjugated Polymer. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10913-10919.	1.2	4
29	The Electron-Vibrational Interaction in a Thiophene-Phenylene Copolymer and Its Relationship to the Raman Spectrum. <i>Moscow University Physics Bulletin (English Translation of Vestnik Tj ETQq1 1 0.784314 rgBj.10verlock 10 Tf 50</i>		
30	Walking around Ribosomal Small Subunit: A Possible "Tourist Map" for Electron Holes. <i>Molecules</i> , 2021, 26, 5479.	1.7	2
31	Spectroscopic Assessment of Charge Mobility in Organic Semiconductors. , 0, , .		0