

Alexei S Komolov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8590331/publications.pdf>

Version: 2024-02-01

93
papers

1,018
citations

430442

18
h-index

525886

27
g-index

94
all docs

94
docs citations

94
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer coated quartz crystal microbalance sensors for detection of volatile organic compounds in gas mixtures. <i>Analytica Chimica Acta</i> , 2007, 597, 223-230.	2.6	131
2	Relation between Electron Scattering Resonances of Isolated NTCDA Molecules and Maxima in the Density of Unoccupied States of Condensed NTCDA Layers. <i>Journal of Physical Chemistry A</i> , 2012, 116, 761-766.	1.1	35
3	Interface formation between thin Cu-phthalocyanine films and crystalline and oxidized silicon surfaces. <i>Synthetic Metals</i> , 2002, 128, 205-210.	2.1	33
4	Poly(9-vinylcarbazole)â€™graphene oxide composite field-effect transistors with enhanced mobility. <i>Organic Electronics</i> , 2015, 16, 186-194.	1.4	31
5	Thermally induced modification of the graphene oxide film on the tantalum surface. <i>Materials and Design</i> , 2017, 113, 319-325.	3.3	29
6	Unoccupied Electronic States at the Interface of Oligo(phenylene-vinylene) Films with Oxidized Silicon. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12633-12638.	1.5	27
7	Dissociative Electron Attachment to Resveratrol as a Likely Pathway for Generation of the H ₂ Antioxidant Species Inside Mitochondria. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1104-1110.	2.1	26
8	Spectroscopic states of PTCDA negative ions and their relation to the maxima of unoccupied state density in the conduction band. <i>Technical Physics</i> , 2011, 56, 754-759.	0.2	25
9	Interconnections between dissociative electron attachment and electron-driven biological processes. <i>International Reviews in Physical Chemistry</i> , 2018, 37, 125-170.	0.9	25
10	Electronic properties of a zinc oxide surface modified by ultra-thin layers of conjugated organic molecules. <i>Surface Science</i> , 2005, 586, 129-136.	0.8	24
11	Modification of the electronic properties of the TiO ₂ (110) surface upon deposition of the ultrathin conjugated organic layers. <i>Applied Surface Science</i> , 2007, 253, 7376-7380.	3.1	24
12	Characterization of conducting molecular films on silicon: Auger electron spectroscopy, X-ray photoelectron spectroscopy, atomic force microscopy and surface photovoltage. <i>Applied Surface Science</i> , 1999, 142, 591-597.	3.1	23
13	Structure of vacant electronic states of an oxidized germanium surface upon deposition of perylene tetracarboxylic dianhydride films. <i>Physics of the Solid State</i> , 2016, 58, 377-381.	0.2	23
14	Interface formation between oligo(phenyleneâ€™vinylene) films and highly ordered pyrolytic graphite and Ge(1 1 1) surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 131-132, 67-75.	0.8	22
15	Unoccupied electronic states and energy level alignment at interfaces between Cu-phthalocyanine films and semiconductor surfaces. <i>Synthetic Metals</i> , 2003, 138, 119-123.	2.1	22
16	Electronic properties of the surface of perylene tetracarboxylic acid dianhydride film upon deposition of the ultrathin conjugated layers of Pyronine B. <i>Applied Surface Science</i> , 2010, 256, 2419-2422.	3.1	21
17	Unoccupied electronic band structure of conjugated molecular films interfacing polycrystalline gold surface. <i>Applied Surface Science</i> , 2005, 244, 573-577.	3.1	19
18	Hypothesis for the Mechanism of Ascorbic Acid Activity in Living Cells Related to Its Electron-Accepting Properties. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2667-2676.	1.1	19

#	ARTICLE	IF	CITATIONS
19	Low-energy electron mean free path in thin films of copper phthalocyanine. <i>Technical Physics Letters</i> , 2003, 29, 974-976.	0.2	18
20	Organic organic interfaces and unoccupied electronic states of thin films of perylene and naphthalene derivatives. <i>Journal of Molecular Structure</i> , 2005, 744-747, 145-149.	1.8	18
21	Photoconductivity and oxygen adsorption of Cu-phthalocyanine thin films on cadmium sulphide surfaces. <i>Applied Surface Science</i> , 2003, 212-213, 497-500.	3.1	17
22	Interface doping of conjugated organic films by means of diffusion of atomic components from the surfaces of semiconductors and of metal oxides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 708-711.	2.0	17
23	Low-Energy Electron Interaction with Melatonin and Related Compounds. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3965-3974.	1.2	17
24	Porous Silicon as a Nanomaterial for Disperse Transport Systems of Targeted Drug Delivery to the Inner Ear. <i>Technical Physics</i> , 2018, 63, 1352-1360.	0.2	17
25	Conduction band electronic states of ultrathin layers of thiophene/phenylene co-oligomers on an oxidized silicon surface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 235, 40-45.	0.8	17
26	Unoccupied states evolution with oxidation of ultrathin Mg, Zn and Cd layers on SrTiO ₃ (100) surfaces. <i>Applied Surface Science</i> , 2001, 175-176, 663-669.	3.1	16
27	Resonance Electron Attachment to Tetracyanoquinodimethane. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6810-6818.	1.1	16
28	Low-energy electron interaction with retusin extracted from <i>Maackia amurensis</i> : towards a molecular mechanism of the biological activity of flavonoids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16805-16812.	1.3	16
29	Dissociative Electron Attachment to Anthralin to Model Its Biochemical Reactions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2916-2921.	2.1	15
30	Photo and gas sensitivity of thin Cu-phthalocyanine films studied by spectroscopy of unoccupied electron states. <i>Synthetic Metals</i> , 2001, 123, 359-363.	2.1	11
31	Electronic properties of the interface between hexadecafluoro copper phthalocyanine and unsubstituted copper phthalocyanine films. <i>Semiconductors</i> , 2013, 47, 956-961.	0.2	11
32	Switching and memory effects in composite films of semiconducting polymers with particles of graphene and graphene oxide. <i>Physics of the Solid State</i> , 2015, 57, 1678-1684.	0.2	11
33	Laser-induced O ₂ desorption from TiO ₂ surfaces. <i>Surface Science</i> , 1998, 395, 82-87.	0.8	10
34	Role of Si/film interface in photovoltaic devices based on aromatic molecular films. <i>Synthetic Metals</i> , 2000, 113, 217-221.	2.1	10
35	Resonance electron interaction with five-membered heterocyclic compounds: Vibrational Feshbach resonances and hydrogen-atom stripping. <i>Physical Review A</i> , 2019, 100, .	1.0	10
36	Electron stimulated ring opening in diphenylphthalide dicarboxylic acid: Its likely role in the unique properties of phthalide-based materials. <i>Journal of Chemical Physics</i> , 2019, 151, 214309.	1.2	10

#	ARTICLE	IF	CITATIONS
37	Interface formation between Cu-phthalocyanine films and CdS and GaAs semiconductor surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 239, 49-54.	2.3	9
38	Electronic properties of the polycrystalline tin dioxide interface with conjugated organic layers. <i>Surface Science</i> , 2011, 605, 1452-1456.	0.8	9
39	Role of Resonance Electron Attachment in Phytoremediation of Halogenated Herbicides. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12098-12104.	1.2	9
40	S-shaped current-voltage characteristics of polymer composite films containing graphene and graphene oxide particles. <i>Physics of the Solid State</i> , 2016, 58, 2567-2573.	0.2	9
41	Can the Electron-Accepting Properties of Odorants Be Involved in Their Recognition by the Olfactory System?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2320-2325.	2.1	9
42	Density of the unoccupied electronic states of the ultrathin films of the aziridinylphenylpyrrol substituted fullerene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 205, 52-56.	0.8	8
43	Why Can Unnatural Electron Acceptors Protect Photosynthesizing Organisms but Kill the Others?. <i>Journal of Physical Chemistry B</i> , 2017, 121, 749-757.	1.2	8
44	Evolution of Acid-Base Properties of the Surface of Zinc Oxide Powders Obtained by the Method of Grinding in an Attritor. <i>Glass Physics and Chemistry</i> , 2018, 44, 464-473.	0.2	8
45	Photovoltage and photoconductivity in Si/organic film/metal structures with films made of poly(3-alkylthiophene) molecules and polycyclic conjugated molecules. <i>Synthetic Metals</i> , 1999, 105, 29-33.	2.1	7
46	Potential barrier and photovoltage at interfaces of hexadecafluoro-copper-phthalocyanine and copper phthalocyanine films on the surface of tin dioxide. <i>Semiconductors</i> , 2012, 46, 988-992.	0.2	7
47	Dissociative electron attachment to some spinochromes: Fragment anion formation. <i>International Journal of Mass Spectrometry</i> , 2017, 412, 26-37.	0.7	7
48	Electronic charge distribution at interfaces between Cu-phthalocyanine films and semiconductor surfaces. <i>Surface Science</i> , 2003, 532-535, 1004-1010.	0.8	6
49	Chemical Binding of Carbon Dioxide on Zinc Oxide Powders Prepared by Mechanical Milling. <i>Inorganic Materials</i> , 2021, 57, 1140-1144.	0.2	6
50	Aggregation of dextran hydrophobically modified by sterically hindered phenols. <i>Polymer Science - Series A</i> , 2009, 51, 161-167.	0.4	5
51	Fragmentation of chlorpyrifos by thermal electron attachment: a likely relation to its metabolism and toxicity. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22272-22283.	1.3	5
52	Electron attachment spectroscopy as a tool to study internal rotations in isolated negative ions. <i>Physical Review Research</i> , 2020, 2, .	1.3	5
53	Title is missing!. <i>Colloid Journal</i> , 2002, 64, 155-159.	0.5	4
54	Vinyl and phenyl terminated octasilsesquioxane thin films: Evidence for π -stacking induced self-organization of the spherically symmetrical molecules. <i>Applied Surface Science</i> , 2019, 478, 636-641.	3.1	4

#	ARTICLE	IF	CITATIONS
55	Formation of AgInS ₂ /ZnS Colloidal Nanocrystals and Their Photoluminescence Properties. <i>Physics of the Solid State</i> , 2019, 61, 2325-2328.	0.2	4
56	Microsecond dynamics of molecular negative ions formed by low-energy electron attachment to fluorinated tetracyanoquinodimethane. <i>Journal of Chemical Physics</i> , 2021, 155, 184301.	1.2	4
57	Unoccupied electronic states and the interface formation between oligo(phenylene-vinylene) films and a Ge(111) surface. <i>Technical Physics</i> , 2004, 49, 630-634.	0.2	3
58	Photovoltaic properties of interfaces in organic molecular film-silicon structures. <i>Technical Physics Letters</i> , 2006, 32, 523-526.	0.2	3
59	Electrical conductivity of mixed structures based on conjugated organic materials and metals oxides upon adsorption of volatile organic compounds. <i>Physics of the Solid State</i> , 2009, 51, 1753-1757.	0.2	3
60	Formation of the conduction band electronic structure during deposition of ultrathin dicarboximide-substituted perylene films on the oxidized silicon surface. <i>Physics of the Solid State</i> , 2015, 57, 1472-1476.	0.2	3
61	Water-soluble copper phthalocyanine for optimization of gas-sensor characteristics of tin dioxide upon adsorption of ammonia. <i>Physics of the Solid State</i> , 2015, 57, 2550-2554.	0.2	3
62	Electronic structure of the conduction band of the interface region of ultrathin films of substituted perylenedicarboximides and the germanium oxide surface. <i>Physics of the Solid State</i> , 2016, 58, 1901-1905.	0.2	3
63	Density of Electronic States in the Conduction Band of Ultrathin Films of Naphthalenedicarboxylic Anhydride and Naphthalenetetracarboxylic Dianhydride on the Surface of Oxidized Silicon. <i>Physics of the Solid State</i> , 2018, 60, 804-808.	0.2	3
64	Unoccupied Electron States and the Formation of Interface between Films of Dimethyl-Substituted Thiophene-Phenylene Coolygomers and Oxidized Silicon Surface. <i>Physics of the Solid State</i> , 2018, 60, 1029-1034.	0.2	3
65	The Unoccupied Electronic States of the Ultrathin Diphenylphthalide Films on the Surface of the Highly Oriented Pyrolytic Graphite. <i>Physics of the Solid State</i> , 2019, 61, 1922-1926.	0.2	3
66	Atomic Composition and Morphology of Thin Films of Resveratrol Deposited on Oxidized Silicon and Polycrystalline Gold Surfaces. <i>Physics of the Solid State</i> , 2019, 61, 468-473.	0.2	3
67	Ionizing radiation and natural constituents of living cells: Low-energy electron interaction with coenzyme Q analogs. <i>Journal of Chemical Physics</i> , 2020, 153, 111103.	1.2	3
68	Unoccupied Electronic States and Potential Barrier in Films of Substituted Diphenylphthalides on the Surface of Highly Ordered Pyrolytic Graphite. <i>Physics of the Solid State</i> , 2021, 63, 362-367.	0.2	3
69	Resonance electron attachment to natural polyphenolic compounds and their biological activity. <i>Letters on Materials</i> , 2015, 5, 504-512.	0.2	3
70	Control over the Surface Properties of Zinc Oxide Powders via Combining Mechanical, Electron Beam, and Thermal Processing. <i>Nanomaterials</i> , 2022, 12, 1924.	1.9	3
71	Unoccupied electronic states in quaterphenyl oligomer films and at the film-gold and film-oxidized silicon interfaces. <i>Technical Physics</i> , 2006, 51, 362-366.	0.2	2
72	Gas-sensor properties of composite semiconductor films of substituted perylene and tin dioxide nanoparticles. <i>Russian Journal of Applied Chemistry</i> , 2010, 83, 835-840.	0.1	2

#	ARTICLE	IF	CITATIONS
73	Photovoltaic properties of interfaces of organic films of substituted perylene with TiO ₂ and SnO ₂ surfaces. <i>Semiconductors</i> , 2011, 45, 169-173.	0.2	2
74	Modification of electronic properties during adsorption of conjugate organic molecules on the surface of polycrystalline SnO ₂ . <i>Technical Physics</i> , 2012, 57, 256-261.	0.2	2
75	Effect of nitrogen-containing substituents on fragmentation of perylene derivatives under laser irradiation. <i>Technical Physics Letters</i> , 2012, 38, 1-3.	0.2	2
76	Electronic properties of ultrathin films based on pyrrolofullerene molecules on the surface of oxidized silicon. <i>Physics of the Solid State</i> , 2014, 56, 1659-1663.	0.2	2
77	Atomic composition and stability of Langmuir-Blodgett monolayers based on siloxane dimer of quaterthiophene on the surface of polycrystalline gold. <i>Physics of the Solid State</i> , 2017, 59, 2491-2496.	0.2	2
78	Propagation of Low-Energy Electrons and the Density of Unoccupied States in Ultrathin TCNQ Layers on the Oxidized Silicon Surface. <i>Physics of the Solid State</i> , 2020, 62, 1245-1250.	0.2	2
79	Unoccupied Electron States of Ultrathin Films of Thiophene-Phenylene Cooligomers on the Surface of Polycrystalline Gold. <i>Physics of the Solid State</i> , 2020, 62, 1960-1966.	0.2	2
80	Photoelectronic properties of organic films on the silicon surface. <i>Technical Physics</i> , 2006, 51, 894-897.	0.2	1
81	Photoelectron processes in heterojunctions based on organic films. <i>Technical Physics Letters</i> , 2008, 34, 522-524.	0.2	1
82	Electric conductivity of siliconorganic polyhomoconjugated polymer films upon adsorption of volatile organic compounds. <i>Technical Physics</i> , 2009, 54, 301-304.	0.2	1
83	Laser-induced desorption of atomic and molecular fragments from a tin dioxide surface modified by a thin organic covering of copper phthalocyanine. <i>Semiconductors</i> , 2012, 46, 45-48.	0.2	1
84	Transmission of low-energy electrons through ultrathin layers of tin(IV) phthalocyanine oxide. <i>Physics of the Solid State</i> , 2014, 56, 2556-2560.	0.2	1
85	Electronic structure of the conduction band upon the formation of ultrathin fullerene films on the germanium oxide surface. <i>Physics of the Solid State</i> , 2016, 58, 1257-1261.	0.2	1
86	Density of unoccupied electronic states of vapor-deposited films of dioctyl-substituted and diphenyl-substituted perylenedicarboximides. <i>Physics of the Solid State</i> , 2017, 59, 403-407.	0.2	1
87	Density of Vacant Electronic States of Semiconductor Films of Molecules of Naphthalene and Diphenylphthalide Modified by Electroactive Functional Groups. <i>Physics of the Solid State</i> , 2020, 62, 1256-1261.	0.2	1
88	The photovoltaic effect in poly(alkylthiophene) films on a silicon substrate. <i>Physics of the Solid State</i> , 2001, 43, 397-400.	0.2	0
89	Photovoltaic properties of a heterojunction based on copper phthalocyanine films on the surface of polycrystalline cadmium sulfide. <i>Physics of the Solid State</i> , 2013, 55, 1373-1376.	0.2	0
90	Resonance electron interaction with heterocyclic compounds: vibrational Feshbach resonances and hydrogen atom stripping. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 212003.	0.3	0

#	ARTICLE	IF	CITATIONS
91	Acid-base properties of the surface of zinc oxide powders subjected to milling in the attritor. Journal of Physics: Conference Series, 2020, 1658, 012042.	0.3	0
92	Unoccupied Electron States of Ultrathin Quaterphenyl Films on the Surfaces of Layered CdS and Oxidized Silicon. Physics of the Solid State, 2021, 63, 1205-1210.	0.2	0
93	Photophysical Properties of Thin Films of Perylene Modified with Tetracarboxylic Acid Dianhydride and Diimide Functional Groups. Physics of the Solid State, 2021, 63, 1419-1425.	0.2	0