Andrei A Sukhanov

List of Publications by Year
in descending order

80	866	623734 14	552781 26
papers	citations	h-index	g-index

80	80	80	795
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spinâ€“Orbit Charge-Transfer Intersystem Crossing (SOCT-ISC) in Bodipy-Phenoxazine Dyads: Effect of Chromophore Orientation and Conformation Restriction on the Photophysical Properties. Journal of Physical Chemistry C, 2019, 123, 22793-22811.	3.1	95
2	Insights into the Efficient Intersystem Crossing of Bodipy-Anthracene Compact Dyads with Steady-State and Time-Resolved Optical/Magnetic Spectroscopies and Observation of the Delayed Fluorescence. Journal of Physical Chemistry C, 2019, 123, 265-274.	3.1	79
3	Red Thermally Activated Delayed Fluorescence and the Intersystem Crossing Mechanisms in Compact Naphthalimideâ€“Phenothiazine Electron Donor/Acceptor Dyads. Journal of Physical Chemistry C, 2019, 123, 30171-30186.	3.1	63
4	Magnetic anisotropy and exchange coupling in a family of isostructural FeIII2LnIII2 complexes. Dalton Transactions, 2013, 42, 8926.	3.3	53
5	Electronic Coupling and Spinâ€“Orbit Charge-Transfer Intersystem Crossing in Phenothiazineâ€“Perylene Compact Electron Donor/Acceptor Dyads. Journal of Physical Chemistry C, 2019, 123, 7010-7024.	3.1	47
6	Balance between Triplet States in Photoexcited Orthogonal BODIPY Dimers. Journal of Physical Chemistry Letters, 2019, 10, 4157-4163.	4.6	45
7	Study of the Spinâ€“Orbit Charge Transfer Intersystem Crossing of Perylenemonoimideâ€“Phenothiazine Compact Electron Donor/Acceptor Dyads with Steady-State and Time-Resolved Optical and Magnetic Spectroscopies. Journal of Physical Chemistry C, 2019, 123, 18270-18282.	3.1	28
8	Unexpected Nucleophilic Substitution Reaction of BODIPY: Preparation of the BODIPYâ€“TEMPO Triad Showing Radicalâ€Enhanced Intersystem Crossing. European Journal of Organic Chemistry, 2018, 2018, 885-895.	2.4	26
9	Radicalâ€Enhanced Intersystem Crossing in a Bayâ€Substituted Perylene Bisimideâ^'TEMPO Dyad and the Electron Spin Polarization Dynamics upon Photoexcitation**. ChemPhysChem, 2021, 22, 55-68.	2.1	23
10	Spiro Rhodamine-Perylene Compact Electron Donorâ€“Acceptor Dyads: Conformation Restriction, Charge Separation, and Spinâ€“Orbit Charge Transfer Intersystem Crossing. Journal of Physical Chemistry B, 2021, 125, 4187-4203.	2.6	21
11	Does Twisted Ï€-Conjugation Framework Always Induce Efficient Intersystem Crossing? A Case Study with Benzo[b]- and [a]Phenanthrene-Fused BODIPY Derivatives and Identification of a Dark State. Journal of Physical Chemistry B, 2021, 125, 6280-6295.	2.6	21
12	Electron spin resonance of dense Yb-based heavy-fermion compounds: New experimental data. Journal of Alloys and Compounds, 2009, 480, 126-127.	5.5	16
13	Chromophore Orientation-Dependent Photophysical Properties of Pyreneâ€“Naphthalimide Compact Electron Donorâ€“Acceptor Dyads: Electron Transfer and Intersystem Crossing. Journal of Physical Chemistry B, 2021, 125, 9244-9259.	2.6	16
14	Long-Lived Triplet Charge Separated State and Thermally Activated Delayed Fluorescence in a Compact Orthogonal Anthraquinoneâ€“Phenothiazine Electron Donorâ€“Acceptor Dyad. Journal of Physical Chemistry Letters, 2022, 13, 2533-2539.	4.6	16
15	Crystal environment of impurity Nd3+ ion in yttrium and scandium orthosilicate crystals. Journal of Magnetic Resonance, 2018, 295, 12-16.	2.1	15
16	Magnetization Blocking in Fe₂^{III}Dy₂^{III} Molecular Magnets: Ab Initio Calculations and EPR Spectroscopy. Chemistry - A European Journal, 2018, 24, 16652-16661.	3.3	15
17	Electron spin resonance in the Heusler alloy YbRh2Pb. JETP Letters, 2009, 90, 116-119.	1.4	13
18	The effect of one-atom substitution on the photophysical properties and electron spin polarization: Intersystem crossing of compact orthogonal perylene/phenoxazine electron donor/acceptor dyad. Journal of Chemical Physics, 2020, 153, 184312.	3.0	13

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19	TREPR Study of the Anisotropic Spinâ€“Lattice Relaxation Induced by Intramolecular Energy Transfer in Orthogonal BODIPY Dimers. Journal of Physical Chemistry C, 2020, 124, 3939-3951.	3.1	12
20	Longâ€Lived Chargeâ€Transfer State in Spiro Compact Electron Donorâ€“Acceptor Dyads Based on Pyromellitimideâ€Derived Rhodamine: Charge Transfer Dynamics and Electron Spin Polarization. Angewandte Chemie - International Edition, 2022, 61, .	13.8	12
21	Intersystem Crossing and Triplet-State Property of Anthryl- and Carbazole-[1,12]fused Perylenebisimide Derivatives with a Twisted Ï€-Conjugation Framework. Journal of Physical Chemistry B, 2021, 125, 9317-9332.	2.6	11
22	Spin Density Distribution in a Nitroxide Biradical Containing 13C-Enriched Acetylene Groups in the Bridge: DFT Calculations and EPR Investigation. Applied Magnetic Resonance, 2016, 47, 1057-1067.	1.2	10
23	ESR Study of Y2SiO5:Nd143 Isotopically Pure Impurity Crystals for Quantum Memory. Applied Magnetic Resonance, 2017, 48, 589-596.	1.2	10
24	Paramagnetic Mn:CdS/ZnS quantum dots: synthesis, luminescence, and magnetic properties. Russian Chemical Bulletin, 2018, 67, 172-175.	1.5	10
25	Optimization of the coherence properties of diamond samples with an intermediate concentration of NV centers. Results in Physics, 2021, 21, 103845.	4.1	10
26	EPR Investigation of Exchange Interactions Between Neodymium Ions in {[Nd2(Î±-C4H3OCOO)6(H2O)2]} n. Applied Magnetic Resonance, 2010, 37, 737-750.	1.2	8
27	Magnetic Resonance Investigations of h-YbMnO3. Applied Magnetic Resonance, 2016, 47, 869-879.	1.2	8
28	The dependence of paramagnetic and optical characteristics of Mn:CdS nanoparticles on high-temperature synthesis conditions. Materials Research Express, 2018, 5, 075009.	1.6	8
29	The Decrease of the ESEEM Frequency of $${ext{P}}_{700}^{ + } {ext{A}}_{1}^{ - }$$ P 700 + A 1. Applied Magnetic Resonance, 2018, 49, 1011-1025.	1.2	8
30	A study of the GK transformer oil using the EPR and NMR methods. Petroleum Chemistry, 2010, 50, 472-475.	1.4	7
31	Structure and Magnetic Properties of Nanostructured Pdâ€“Fe Thin Films Produced by Pulse Electrodeposition. Journal of Nanoscience and Nanotechnology, 2011, 11, 8907-8911.	0.9	7
32	Time-Resolved Continuous-Wave and Pulse EPR Investigation of Photoinduced States of Zinc Porphyrin Linked with an Ethylenediamine Copper Complex. Applied Magnetic Resonance, 2015, 46, 1199-1220.	1.2	7
33	How Far can the Anisotropy Deviate from Uniaxiality in a Dy-Based Single-Molecule Magnet? Dinuclear Dy(III) Complex Study. Applied Magnetic Resonance, 2017, 48, 101-113.	1.2	7
34	Monitoring of the Mechanism of Mn Ions Incorporation into Quantum Dots by Optical and EPR Spectroscopy. Photonics, 2019, 6, 107.	2.0	7
35	Effect of molecular conformation on the efficiency of the spin orbital charge recombination-induced intersystem crossing in bianthryls. Dyes and Pigments, 2021, 187, 109121.	3.7	7
36	Charge Separation and Intersystem Crossing in Homo- and Hetero-Compact Naphthalimide Dimers. Journal of Physical Chemistry B, 2022, 126, 4364-4378.	2.6	7

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37	EPR Study of TiO2 (Rutile) Doped with Vanadium. Applied Magnetic Resonance, 2016, 47, 479-485.	1.2	6
38	Dimer self-organization of impurity ytterbium ions in synthetic forsterite single crystals. JETP Letters, 2017, 106, 92-96.	1.4	6
39	EPR Spectroscopy of Impurity Thulium Ions in Yttrium Orthosilicate Single Crystals. JETP Letters, 2018, 108, 210-214.	1.4	6
40	Electronic hybridization effects in dense intermetallics measured by electron spin resonance. Journal of Physics: Conference Series, 2011, 273, 012035.	0.4	5
41	Dual nature of electron spin resonance in YbCo2Zn20 intermetallic compound. JETP Letters, 2014, 99, 153-157.	1.4	5
42	Electronic band structure of phosphorus-doped single crystal diamond: Dynamic Jahn-Teller distortion of the tetrahedral donor ground state. Physical Review B, 2020, 102, .	3.2	5
43	N^N Pt(II) Bisacetylide Complexes with Oxoverdazyl Radical Ligands: Preparation, Photophysical Properties, and Magnetic Exchange Interaction between the Two Radical Ligands. Inorganic Chemistry, 2020, 59, 12471-12485.	4.0	5
44	Investigation of neodymium doped YVO4 by EPR method. Optical Materials, 2018, 85, 414-417.	3.6	4
45	Rescaling of 2D ESEEM Data as a Tool for Inverse Problem Solving. Applied Magnetic Resonance, 2018, 49, 1313-1333.	1.2	4
46	Lanthanide-doped CdS quantum dots: luminescence and paramagnetic properties. Russian Chemical Bulletin, 2020, 69, 1749-1754.	1.5	4
47	Impact of Ironâ€“Sulfur Clusters on the Spinâ€“Lattice Relaxation Rate and ESEEM Frequency of the Oxidized Primary Donor P700+Â· and Reduced Phylloquinone Acceptor A1â¯Â· in Radical Pairs in Photosystem I Embedded in Trehalose Glassy Matrix. Applied Magnetic Resonance, 2020, 51, 909-924.	1.2	4
48	Observation of electric quadrupole spin resonance of Ho3+ impurity ions in synthetic forsterite. JETP Letters, 2011, 93, 282-286.	1.4	3
49	Spin dynamics of the new phosphides YbRh6P4and CeIr2P2as studied by electron spin resonance. Journal of Physics: Conference Series, 2012, 391, 012024.	0.4	3
50	Thermo- and photoinduced properties of the Fe(III) complexes with the pentadentate ligand according to the EPR data. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2013, 39, 598-602.	1.0	3
51	N,N-Dimethyldodecylamine Oxide Self-Organization in the Presence of Lanthanide Ions in Aqueous and Aqueous-Decanol Solutions. Journal of Physical Chemistry B, 2013, 117, 5355-5364.	2.6	3
52	Magnetic resonance and magnetization studies of Fe implanted TlInS₂ and TlGaSe₂ crystals. Materials Research Express, 2019, 6, 076109.	1.6	3
53	Radicalâ€Enhanced Intersystem Crossing in Peryleneâ€Oxoverdazyl Radical Dyads. ChemPhysChem, 2022, 23, .	2.1	3
54	Intersystem Crossing and Electron Spin Dynamics of Photoexcited Bodipy Dimers. Journal of Physical Chemistry C, 2022, 126, 5473-5482.	3.1	3

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55	Longâ€Lived Chargeâ€Transfer State in Spiro Compact Electron Donorâ€“Acceptor Dyads Based on Pyromellitimideâ€Derived Rhodamine: Charge Transfer Dynamics and Electron Spin Polarization. Angewandte Chemie, 2022, 134, .	2.0	3
56	Hybridized Electronic States in Dense Intermetallics as Studied by ESR. Solid State Phenomena, 0, 170, 170-173.	0.3	2
57	Dual nature of 3delectrons in YbT₂Zn₂₀(T = Co; Fe) evidenced by electron spin resonance. Journal of Physics: Conference Series, 2015, 592, 012084.	0.4	2
58	Binding of Imidazole Stabilizes Lowâ€spin State of Heme Iron in Dualâ€Substrateâ€Specific Rice Allene Oxide Synthaseâ€1. Bulletin of the Korean Chemical Society, 2015, 36, 2015-2019.	1.9	2
59	Separation of enzymatic functions and variation of spin state of rice allene oxide synthase-1 by mutation of Phe-92 and Pro-430. Bioorganic Chemistry, 2016, 68, 9-14.	4.1	2
60	Magnetic behavior of the nanophase of YbNi2 alloys. Physics of Metals and Metallography, 2017, 118, 341-345.	1.0	2
61	Exchange Interactions in Heteronuclear Clusters Containing Dysprosium Ions: EPR Spectroscopy Possibility. Applied Magnetic Resonance, 2019, 50, 1429-1441.	1.2	2
62	The Local Environment near a Neodymium Ion Doped in Y2SiO5. Applied Magnetic Resonance, 2019, 50, 469-477.	1.2	2
63	Spin relaxation of the ^{171}Yb^{3+} ion in the Y$_{2}$^{28}SiO$_{5}$ crystal. Magnetic Resonance in Solids, 2020, 22, .	0.2	2
64	Temperature Dependencies of the Spin Relaxation Times for the Isotopically Pure Chromium Impurity 53Cr3+ in the Yttrium Orthosilicate Single Crystal Y228SiO5. Applied Magnetic Resonance, 2021, 52, 1175.	1.2	2
65	EPR Spectroscopy of Impurity Ytterbium Ions in Synthetic Forsterite Single Crystals. Applied Magnetic Resonance, 2022, 53, 1211-1226.	1.2	2
66	EPR investigation of the spin-spin interactions in a Cu(II)-Gd(III)-Fe(III) heterospin system. Applied Magnetic Resonance, 2009, 35, 613-623.	1.2	1
67	Combined Magneto-Electric Spin Resonance of Impurity Ho Ions in Synthetic Forsterite. Applied Magnetic Resonance, 2014, 45, 239-253.	1.2	1
68	Time-Resolved and Pulse EPR Study of Conjuncted Porphyrin Trimer. Applied Magnetic Resonance, 2016, 47, 1295-1304.	1.2	1
69	Electron Spin Polarization of Photo-Excited Copper Coproporphyrin I: From Monomers to Dimers. Applied Magnetic Resonance, 2018, 49, 239-253.	1.2	1
70	Features of Exchange Interaction Between Cr3+ Ions in Compounds [Fe(phen)3][Cr2(OH)(Ac)(nta)2]Â·6,25H2O and [Fe(bpy)3][Cr2(OH)(Ac)(nta)2]Â·8H2O. Applied Magnetic Resonance, 2018, 49, 61-69.	1.2	1
71	Monitoring of Mn ions incorporation into quantum dots by EPR and luminescence spectroscopy. , 2019, , .		1
72	Collapse and Revival of the Electron Spin Echo of Impurity Yb3+ Ions on Hidden Frequency Combs of Hyperfine Interactions in a Y2SiO5 Single Crystal. JETP Letters, 2022, 115, 362-367.	1.4	1

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73	Investigation of CuGaTe2 semiconductor compounds doped with Mn by the EPR method. Russian Physics Journal, 2011, 54, 283-287.	0.4	0
74	ESR study of spin dynamics in the ternary phosphide YbRh6P4. Journal of Physics: Conference Series, 2011, 324, 012019.	0.4	0
75	EPR and NMR spectroscopy of transformer oil. Chemistry and Technology of Fuels and Oils, 2013, 49, 264-272.	0.5	0
76	Oscillation of the multiferroic/ferroelectric GdMnO3/SrTiO3and YbMnO3/SrTiO3interfaces in the EPR spectrum. Low Temperature Physics, 2015, 41, 43-46.	0.6	0
77	Photophysical Properties of Zinc Coproporphyrin I Tetraethyl Ester in Different Solvents Probed by TR EPR Spectroscopy. Applied Magnetic Resonance, 2019, 50, 455-468.	1.2	0
78	Spinâ€“Spin Interactions Between ErIII Ions in the [Al2Er2(Î¼3-OH)2(pmide)2(p-Me-PhCO2)6]Â·2MeCN Compound: EPR Study. Applied Magnetic Resonance, 2020, 51, 1267-1276.	1.2	0
79	Features of Formation of Cr3+ Paramagnetic Centers in Strontium Titanate (SrTiO3) Implanted with Chromium Ions. Journal of Surface Investigation, 2020, 14, 551-554.	0.5	0
80	Dimer self-organization of 53Cr impurity ions in synthetic forsterite. Magnetic Resonance in Solids, 2019, 21, .	0.2	0