

Andrei A Sukhanov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	EPR Spectroscopy of Impurity Ytterbium Ions in Synthetic Forsterite Single Crystals. <i>Applied Magnetic Resonance</i> , 2022, 53, 1211-1226.	1.2	2
2	Long-Lived Triplet Charge Separated State and Thermally Activated Delayed Fluorescence in a Compact Orthogonal Anthraquinone-Phenothiazine Electron Donor-Acceptor Dyad. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2533-2539.	4.6	16
3	Radical-Enhanced Intersystem Crossing in Perylene-Oxoverdazyl Radical Dyads. <i>ChemPhysChem</i> , 2022, 23, .	2.1	3
4	Intersystem Crossing and Electron Spin Dynamics of Photoexcited Bodipy Dimers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5473-5482.	3.1	3
5	Long-Lived Charge-Transfer State in Spiro Compact Electron Donor-Acceptor Dyads Based on Pyromellitimide-Derived Rhodamine: Charge Transfer Dynamics and Electron Spin Polarization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
6	Long-Lived Charge-Transfer State in Spiro Compact Electron Donor-Acceptor Dyads Based on Pyromellitimide-Derived Rhodamine: Charge Transfer Dynamics and Electron Spin Polarization. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
7	Collapse and Revival of the Electron Spin Echo of Impurity Yb ³⁺ Ions on Hidden Frequency Combs of Hyperfine Interactions in a Y ₂ SiO ₅ Single Crystal. <i>JETP Letters</i> , 2022, 115, 362-367.	1.4	1
8	Charge Separation and Intersystem Crossing in Homo- and Hetero-Compact Naphthalimide Dimers. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4364-4378.	2.6	7
9	Radical-Enhanced Intersystem Crossing in a Bay-Substituted Perylene Bisimide-TEMPO Dyad and the Electron Spin Polarization Dynamics upon Photoexcitation**. <i>ChemPhysChem</i> , 2021, 22, 55-68.	2.1	23
10	Optimization of the coherence properties of diamond samples with an intermediate concentration of NV centers. <i>Results in Physics</i> , 2021, 21, 103845.	4.1	10
11	Effect of molecular conformation on the efficiency of the spin orbital charge recombination-induced intersystem crossing in bianthrils. <i>Dyes and Pigments</i> , 2021, 187, 109121.	3.7	7
12	Spiro Rhodamine-Perylene Compact Electron Donor-Acceptor Dyads: Conformation Restriction, Charge Separation, and Spin-Orbit Charge Transfer Intersystem Crossing. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4187-4203.	2.6	21
13	Does Twisted π -Conjugation Framework Always Induce Efficient Intersystem Crossing? A Case Study with Benzo[<i>b</i>]- and [<i>a</i>]Phenanthrene-Fused BODIPY Derivatives and Identification of a Dark State. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6280-6295.	2.6	21
14	Chromophore Orientation-Dependent Photophysical Properties of Pyrene-Naphthalimide Compact Electron Donor-Acceptor Dyads: Electron Transfer and Intersystem Crossing. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9244-9259.	2.6	16
15	Intersystem Crossing and Triplet-State Property of Anthryl- and Carbazole-[1,12]fused Perylenebisimide Derivatives with a Twisted π -Conjugation Framework. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9317-9332.	2.6	11
16	Temperature Dependencies of the Spin Relaxation Times for the Isotopically Pure Chromium Impurity 53Cr ³⁺ in the Yttrium Orthosilicate Single Crystal Y ₂ SiO ₅ . <i>Applied Magnetic Resonance</i> , 2021, 52, 1175.	1.2	2
17	Electronic band structure of phosphorus-doped single crystal diamond: Dynamic Jahn-Teller distortion of the tetrahedral donor ground state. <i>Physical Review B</i> , 2020, 102, .	3.2	5
18	Spin-Spin Interactions Between Er ^{III} Ions in the [Al ₂ Er ₂ ($\frac{1}{4}$ -OH) ₂ (pmide) ₂ (p-Me-PhCO ₂) ₆] \cdot 2MeCN Compound: EPR Study. <i>Applied Magnetic Resonance</i> , 2020, 51, 1267-1276.	1.2	0

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19	Lanthanide-doped CdS quantum dots: luminescence and paramagnetic properties. Russian Chemical Bulletin, 2020, 69, 1749-1754.	1.5	4
20	Features of Formation of Cr ³⁺ Paramagnetic Centers in Strontium Titanate (SrTiO ₃) Implanted with Chromium Ions. Journal of Surface Investigation, 2020, 14, 551-554.	0.5	0
21	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
22	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
23	Impact of Iron-Sulfur Clusters on the Spin Lattice Relaxation Rate and ESEEM Frequency of the Oxidized Primary Donor P700 ⁺ and Reduced Pheophytin a [•] in Radical Pairs in Photosystem I Embedded in Trehalose Glassy Matrix. Applied Magnetic Resonance, 2020, 51, 909-924.	1.2	4
24	TREPR Study of the Anisotropic Spin Lattice Relaxation Induced by Intramolecular Energy Transfer in Orthogonal BODIPY Dimers. Journal of Physical Chemistry C, 2020, 124, 3939-3951.	3.1	12
25	Spin relaxation of the ¹⁷¹ Yb ³⁺ ion in the Y ₂ SiO ₅ crystal. Magnetic Resonance in Solids, 2020, 22, .	0.2	2
26	Study of the Spin-Orbit Charge Transfer Intersystem Crossing of Perylenemonoimide-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
27	Balance between Triplet States in Photoexcited Orthogonal BODIPY Dimers. Journal of Physical Chemistry Letters, 2019, 10, 4157-4163.	4.6	45
28	Monitoring of the Mechanism of Mn Ions Incorporation into Quantum Dots by Optical and EPR Spectroscopy. Photonics, 2019, 6, 107.	2.0	7
29	Spin-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
30	Exchange Interactions in Heteronuclear Clusters Containing Dysprosium Ions: EPR Spectroscopy Possibility. Applied Magnetic Resonance, 2019, 50, 1429-1441.	1.2	2
31	Magnetic resonance and magnetization studies of Fe implanted TlIn ₂ and TlGaSe ₂ crystals. Materials Research Express, 2019, 6, 076109.	1.6	3
32	Electronic Coupling and Spin-Orbit Charge-Transfer Intersystem Crossing in Phenothiazine-Perylene Compact Electron Donor/Acceptor Dyads. Journal of Physical Chemistry C, 2019, 123, 7010-7024.	3.1	47
33	Red Thermally Activated Delayed Fluorescence and the Intersystem Crossing Mechanisms in Compact Naphthalimide-Phenothiazine Electron Donor/Acceptor Dyads. Journal of Physical Chemistry C, 2019, 123, 30171-30186.	3.1	63
34	The Local Environment near a Neodymium Ion Doped in Y ₂ SiO ₅ . Applied Magnetic Resonance, 2019, 50, 469-477.	1.2	2
35	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
36	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

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37	Dimer self-organization of ⁵³ Cr impurity ions in synthetic forsterite. <i>Magnetic Resonance in Solids</i> , 2019, 21, .	0.2	0
38	Monitoring of Mn ions incorporation into quantum dots by EPR and luminescence spectroscopy. , 2019, , .		1
39	Paramagnetic Mn:CdS/ZnS quantum dots: synthesis, luminescence, and magnetic properties. <i>Russian Chemical Bulletin</i> , 2018, 67, 172-175.	1.5	10
40	Electron Spin Polarization of Photo-Excited Copper Coproporphyrin I: From Monomers to Dimers. <i>Applied Magnetic Resonance</i> , 2018, 49, 239-253.	1.2	1
41	Features of Exchange Interaction Between Cr ³⁺ Ions in Compounds [Fe(phen) ₃][Cr ₂ (OH)(Ac)(nta) ₂] <u>6</u> ·25H ₂ O and [Fe(bpy) ₃][Cr ₂ (OH)(Ac)(nta) ₂] <u>8</u> ·8H ₂ O. <i>Applied Magnetic Resonance</i> , 2018, 49, 61-69.	1.2	1
42	Unexpected Nucleophilic Substitution Reaction of BODIPY: Preparation of the BODIPY-TEMPO Triad Showing Radical-Enhanced Intersystem Crossing. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 885-895.	2.4	26
43	EPR Spectroscopy of Impurity Thulium Ions in Yttrium Orthosilicate Single Crystals. <i>JETP Letters</i> , 2018, 108, 210-214.	1.4	6
44	Investigation of neodymium doped YVO ₄ by EPR method. <i>Optical Materials</i> , 2018, 85, 414-417.	3.6	4
45	The dependence of paramagnetic and optical characteristics of Mn:CdS nanoparticles on high-temperature synthesis conditions. <i>Materials Research Express</i> , 2018, 5, 075009.	1.6	8
46	Crystal environment of impurity Nd ³⁺ ion in yttrium and scandium orthosilicate crystals. <i>Journal of Magnetic Resonance</i> , 2018, 295, 12-16.	2.1	15
47	The Decrease of the ESEEM Frequency of $P_{700} + A_1$. <i>Applied Magnetic Resonance</i> , 2018, 49, 1011-1025.	1.2	8
48	Rescaling of 2D ESEEM Data as a Tool for Inverse Problem Solving. <i>Applied Magnetic Resonance</i> , 2018, 49, 1313-1333.	1.2	4
49	Magnetization Blocking in Fe ₂ Dy ₂ Molecular Magnets: Ab Initio Calculations and EPR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 16652-16661.	3.3	15
50	ESR Study of Y ₂ SiO ₅ :Nd ¹⁴³ Isotopically Pure Impurity Crystals for Quantum Memory. <i>Applied Magnetic Resonance</i> , 2017, 48, 589-596.	1.2	10
51	Magnetic behavior of the nanophase of YbNi ₂ alloys. <i>Physics of Metals and Metallography</i> , 2017, 118, 341-345.	1.0	2
52	How Far can the Anisotropy Deviate from Uniaxiality in a Dy-Based Single-Molecule Magnet? Dinuclear Dy(III) Complex Study. <i>Applied Magnetic Resonance</i> , 2017, 48, 101-113.	1.2	7
53	Dimer self-organization of impurity ytterbium ions in synthetic forsterite single crystals. <i>JETP Letters</i> , 2017, 106, 92-96.	1.4	6
54	Time-Resolved and Pulse EPR Study of Conjoined Porphyrin Trimer. <i>Applied Magnetic Resonance</i> , 2016, 47, 1295-1304.	1.2	1

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55	Spin Density Distribution in a Nitroxide Biradical Containing ¹³ C-Enriched Acetylene Groups in the Bridge: DFT Calculations and EPR Investigation. Applied Magnetic Resonance, 2016, 47, 1057-1067.	1.2	10
56	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
57	Magnetic Resonance Investigations of h-YbMnO ₃ . Applied Magnetic Resonance, 2016, 47, 869-879.	1.2	8
58	EPR Study of TiO ₂ (Rutile) Doped with Vanadium. Applied Magnetic Resonance, 2016, 47, 479-485.	1.2	6
59	Dual nature of 3 <i>d</i> electrons in YbT ₂ Zn ₂₀ (T = Co; Fe) evidenced by electron spin resonance. Journal of Physics: Conference Series, 2015, 592, 012084.	0.4	2
60	Binding of Imidazole Stabilizes Low-spin State of Heme Iron in Dual-Substrate-Specific Rice Allene Oxide Synthase-1. Bulletin of the Korean Chemical Society, 2015, 36, 2015-2019.	1.9	2
61	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
62	Oscillation of the multiferroic/ferroelectric GdMnO ₃ /SrTiO ₃ and YbMnO ₃ /SrTiO ₃ interfaces in the EPR spectrum. Low Temperature Physics, 2015, 41, 43-46.	0.6	0
63	Combined Magneto-Electric Spin Resonance of Impurity Ho Ions in Synthetic Forsterite. Applied Magnetic Resonance, 2014, 45, 239-253.	1.2	1
64	Dual nature of electron spin resonance in YbCo ₂ Zn ₂₀ intermetallic compound. JETP Letters, 2014, 99, 153-157.	1.4	5
65	EPR and NMR spectroscopy of transformer oil. Chemistry and Technology of Fuels and Oils, 2013, 49, 264-272.	0.5	0
66	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
67	Magnetic anisotropy and exchange coupling in a family of isostructural Fe ^{III} Ln ^{III} complexes. Dalton Transactions, 2013, 42, 8926.	3.3	53
68	<i>N,N</i> -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
69	Spin dynamics of the new phosphides YbRh ₆ P ₄ and CeIr ₂ P ₂ as studied by electron spin resonance. Journal of Physics: Conference Series, 2012, 391, 012024.	0.4	3
70	Electronic hybridization effects in dense intermetallics measured by electron spin resonance. Journal of Physics: Conference Series, 2011, 273, 012035.	0.4	5
71	Observation of electric quadrupole spin resonance of Ho ³⁺ impurity ions in synthetic forsterite. JETP Letters, 2011, 93, 282-286.	1.4	3
72	Investigation of CuGaTe ₂ semiconductor compounds doped with Mn by the EPR method. Russian Physics Journal, 2011, 54, 283-287.	0.4	0

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73	Structure and Magnetic Properties of Nanostructured Pd-Fe Thin Films Produced by Pulse Electrodeposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8907-8911.	0.9	7
74	ESR study of spin dynamics in the ternary phosphide YbRh6P4. <i>Journal of Physics: Conference Series</i> , 2011, 324, 012019.	0.4	0
75	A study of the GK transformer oil using the EPR and NMR methods. <i>Petroleum Chemistry</i> , 2010, 50, 472-475.	1.4	7
76	EPR Investigation of Exchange Interactions Between Neodymium Ions in {[Nd2(μ-C4H3OCOO)6(H2O)2]} n. <i>Applied Magnetic Resonance</i> , 2010, 37, 737-750.	1.2	8
77	EPR investigation of the spin-spin interactions in a Cu(II)-Gd(III)-Fe(III) heterospin system. <i>Applied Magnetic Resonance</i> , 2009, 35, 613-623.	1.2	1
78	Electron spin resonance in the Heusler alloy YbRh2Pb. <i>JETP Letters</i> , 2009, 90, 116-119.	1.4	13
79	Electron spin resonance of dense Yb-based heavy-fermion compounds: New experimental data. <i>Journal of Alloys and Compounds</i> , 2009, 480, 126-127.	5.5	16
80	Hybridized Electronic States in Dense Intermetallics as Studied by ESR. <i>Solid State Phenomena</i> , 0, 170, 170-173.	0.3	2