Kuklin Sergei

List of Publications by Year
in descending order

61	650	12	23
papers	citations	h-index	g-index

61	61	61	820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New wide-bandgap Dâ€"A polymer based on pyrrolo[3,4-<i>b</i>] dithieno[2,3-<i>f</i>:3â€²,2â€²-<i>h</i>]quinoxalindione and thiazole functionalized benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene units for high-performance ternary organic solar cells with over 16% efficiency. Sustainable Energy and Fuels, 2022, 6, 682-692.	2.5	1
2	New Medium Bandgap Donor Dâ€A₁â€Dâ€A₂ Type Copolymers Based on Anthra[1,2â€b: 4,3â€bâ€œ:6,7â€câ€] Trithiopheneâ€8,12â€dione Groups for Highâ€Efficient Nonâ€Fullerene Polymer Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2100839.	2.0	9
3	New Random Terpolymers Based on Bis(4,5-didodecylthiophen-2-yl)-[1,2,5]thiadiazolo[3,4-i]dithieno[3,2-a:2',3'-c]phenazine with Variable Absorption Spectrum as Promising Materials for Organic Solar Cells. Doklady Physical Chemistry, 2021, 496, 1-7.	0.2	1
4	New 4,5-Diaza-9,9'-spirobifluorene Derivativeâ€"A Promising Electron Acceptor for Nonfullerene Polymer Solar Cells. Doklady Chemistry, 2019, 485, 95-99.	0.2	5
5	Random D1â€"A1â€"D1â€"A2 terpolymers based on diketopyrrolopyrrole and benzothiadiazolequinoxaline (BTQx) derivatives for high-performance polymer solar cells. New Journal of Chemistry, 2019, 43, 5325-5334.	1.4	9
6	Polymer solar cells based on Dâ€"A low bandgap copolymers containing fluorinated side chains of thiadiazoloquinoxaline acceptor and benzodithiophene donor units. New Journal of Chemistry, 2018, 42, 1626-1633.	1.4	8
7	Reduction of (1,3-diformylindenyl)cyclopentadienylruthenium derivatives. Russian Chemical Bulletin, 2018, 67, 33-35.	0.4	0
8	New iridium-containing conjugated polymers for polymer solar cell applications. New Journal of Chemistry, 2018, 42, 17296-17302.	1.4	9
9	5,6-Bis(9-(2-decyltetradecyl)-6-fluoro-9H-carbazol-3-yl)naphtho[2,1-b:3,4-b']dithiophene as a Promising Donor Structure for Dâ€"A Conjugated Copolymers with a Narrow Bandgap. Doklady Chemistry, 2018, 482, 213-219.	0.2	0
10	Bis[1,3]thiazolo[4,5-f:5',4'-h]thieno[3,4-b]quinoxaline Derivatives as New Building Blocks of Polymers for Organic Electronics. Doklady Chemistry, 2018, 482, 207-211.	0.2	3
11	New Quinoxaline-Containing Monomers for Narrow-Bandgap Polymers. Doklady Chemistry, 2018, 482, 195-200.	0.2	2
12	Opto-Electrical Properties of Composite Materials Based on Two Benzotrithiophene Copolymers and Fullerene Derivatives. Journal of Nanomaterials, 2018, 2018, 1-9.	1.5	1
13	Synthesis, characterization and photovoltaic properties of new iridium-containing conjugated polymers. AIP Conference Proceedings, 2018, , .	0.3	0
14	Synthesis and photovoltaic properties low bandgap D-A copolymers based on fluorinated thiadiazoloquinoxaline. Organic Electronics, 2017, 43, 268-276.	1.4	6
15	Polymer solar cells based low bandgap A1-D-A2-D terpolymer based on fluorinated thiadiazoloquinoxaline and benzothiadiazole acceptors with energy loss less than 0.5ÂeV. Organic Electronics, 2017, 46, 192-202.	1.4	11
16	New monomer based on thienopyrazine with fluorocarbazole substituents as a promising building block for organic electronics. Doklady Chemistry, 2017, 472, 25-29.	0.2	2
17	Benzothiadiazole-pyrrolo[3,4-b]dithieno[2,3-f:3â€²,2â€²-h]quinoxalindione-based random terpolymer incorporating strong and weak electron accepting [1,2,5]thiadiazolo[3,4g]quinoxalinefor polymer solar cells. Organic Electronics, 2017, 41, 1-8.	1.4	5
18	Regular conjugated Dâ€"A copolymer containing two benzotriazole and benzothiadiazole acceptors and dithienosilole donor units for photovoltaic application. RSC Advances, 2017, 7, 49204-49214.	1.7	5

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19	Donorâ€“acceptorâ€“acceptor (Dâ€“Aâ€“A) type 1,8-naphthalimides as non-fullerene small molecule acceptors for bulk heterojunction solar cells. Chemical Science, 2017, 8, 2017-2024.	3.7	65
20	Design, synthesis and photophysical properties of D1-A-D2-A-D1-type small molecules based on fluorobenzotriazole acceptor and dithienosilole core donor for solution processed organic solar cells. Dyes and Pigments, 2016, 132, 387-397.	2.0	7
21	Synthesis and optical and electrochemical properties of 5,6-bis[9-(2-decyltetradecyl)-9H-carbazol-3-yl]naphtho[2,1-b:3,4-bâ€™]dithiophene as a promising building block for photovoltaic applications. Doklady Chemistry, 2016, 467, 94-99.	0.2	1
22	New alternating Dâ€“A₁â€“Dâ€“A₂ copolymer containing two electronâ€deficient moieties based on benzothiadiazole and 9â€(2â€Octyldodecyl)â€8<i>H</i>â€pyrrolo[3,4â€<i>b</i>]bisthieno[2,3â€<i>f</i>:3',2'â€<i>h</i>]quinoxalineâ€8,10(9<i>H</i>)â€dic for efficient polymer solar cells. Journal of Polymer Science Part A, 2016, 54, 155-168.	2.5	10
23	Synthesis of alternating Dâ€“A1â€“Dâ€“A2 terpolymers comprising two electron-deficient moieties, quinoxaline and benzothiadiazole units for photovoltaic applications. Polymer Chemistry, 2016, 7, 4025-4035.	1.9	11
24	Synthesis and photophysical properties of semiconductor molecules of D1â€“Aâ€“D2â€“Aâ€“D1 structure on the basis of quinoxaline and dithienosilole derivatives for organic solar cells. Doklady Physical Chemistry, 2016, 469, 106-110.	0.2	1
25	Novel regular Dâ€“A-conjugated polymers based on 2,6-bis(6-fluoro-2-hexyl-2H-benzotriazol-4-yl)-4,4-bis(2-ethylhexyl)-4H-silolo[3,2-b:4,5-bâ€²]dithiophene derivatives: Synthesis, optoelectronic, and electrochemical properties. Doklady Chemistry, 2016, 470, 274-278.	0.2	2
26	New ultra low bandgap thiadiazolequinoxaline-based D-A copolymers for photovoltaic applications. Organic Electronics, 2016, 37, 411-420.	1.4	2
27	Synthesis and photophysical properties of regioregular low bandgap copolymers with controlled 5-fluorobenzotriazole orientation for photovoltaic application. Polymer Chemistry, 2016, 7, 5849-5861.	1.9	11
28	New D-A1â€“D-A2-Type Regular Terpolymers Containing Benzothiadiazole and Benzotrithiophene Acceptor Units for Photovoltaic Application. ACS Applied Materials & Interfaces, 2016, 8, 32998-33009.	4.0	18
29	New electron-accepting quinoxalinothiadiazole-containing heterocycles as promising building blocks for organic optoelectronic devices. Doklady Chemistry, 2016, 468, 202-207.	0.2	5
30	Synthesis of new D-A1â€“D-A2 type low bandgap terpolymers based on different thiadiazoloquinoxaline acceptor units for efficient polymer solar cells. RSC Advances, 2016, 6, 71232-71244.	1.7	11
31	New donorâ€“acceptor copolymers with ultra-narrow band gap for photovoltaic application. Doklady Chemistry, 2016, 470, 283-288.	0.2	2
32	Synthesis and photophysical properties of semiconductor molecules D1-A-D2-A-D1-type structure based on derivatives of quinoxaline and dithienosilole for organics solar cells. Organic Electronics, 2016, 39, 361-370.	1.4	3
33	New narrow-band-gap thiazoloquinoxaline-containing polymers and their use in solar cells with bulk heterojunction. Doklady Chemistry, 2016, 471, 373-377.	0.2	1
34	Design and synthesis of new ultra-low band gap thiadiazoloquinoxaline-based polymers for near-infrared organic photovoltaic application. RSC Advances, 2016, 6, 14893-14908.	1.7	26
35	New low bandgap near-IR conjugated Dâ€“A copolymers for BHJ polymer solar cell applications. Physical Chemistry Chemical Physics, 2016, 18, 8389-8400.	1.3	18
36	A New D-A conjugated polymer P(PTQD-BDT) with PTQD acceptor and BDT donor units for BHJ polymer solar cells application. Journal of Polymer Science Part A, 2015, 53, 2390-2398.	2.5	10

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37	Two new Dâ€“A conjugated polymers P(PTQD-Th) and P(PTQD-2Th) with same 9-(2-octyldodecyl)-8 H -pyrrolo[3,4- b]bisthieno[2,3- f :3â€²,2â€²- h]quinoxaline-8,10(9 H)-dione acceptor and different donor units for BHJ polymer solar cells application. Organic Electronics, 2015, 24, 137-146.	1.4	6
38	Novel low-band-gap conjugated polymers based on benzotrithiophene derivatives for bulk heterojunction solar cells. Doklady Chemistry, 2015, 464, 231-235.	0.2	5
39	New thienofluoroanthenes as building blocks for optoelectronic applications. Doklady Chemistry, 2015, 461, 75-80.	0.2	0
40	Synthesis and characterization of two new benzothiadiazole- andÂfused bithiophene based low band-gap Dâ€“A copolymers: Application as donor bulk heterojunction polymer solar cells. Polymer, 2015, 65, 193-201.	1.8	16
41	New fused thiophene derivatives as promising building blocks for optoelectronic devices. Doklady Chemistry, 2015, 460, 50-56.	0.2	0
42	Synthesis of new symmetrical carbazole- and fluorene-containing Î±-diketones. Doklady Chemistry, 2015, 463, 215-220.	0.2	2
43	Synthesis, optical and electrochemical properties new donorâ€“acceptor (Dâ€“A) copolymers based on benzo[1,2-b:3,4-bâ€²:6,5-bâ€³] trithiophene donor and different acceptor units: Application as donor for photovoltaic devices. Organic Electronics, 2015, 17, 167-177.	1.4	9
44	Synthesis and optoelectronic properties of conjugated phosphorescent copolyfluorenes containing iridium complexes in main chains and light-emitting diodes formed on their basis. Polymer Science - Series B, 2014, 56, 77-88.	0.3	2
45	New Ï€-conjugated electroluminescent polymers containing organoiridium quinolinolate complexes in the backbone and light diodes formed on their basis. Polymer Science - Series B, 2014, 56, 198-206.	0.3	1
46	New donor-acceptor benzotrithiophene-containing conjugated polymers for solar cells. Doklady Chemistry, 2014, 454, 25-31.	0.2	1
47	Synthesis and photovoltaic properties of new donorâ€“acceptor (Dâ€“A) copolymers based on benzo[1,2-b:3,4-bâ€²:6,5-bâ€²â€²] trithiophene donor and different acceptor units (P1 and P2). RSC Advances, 2014, 4, 53531-53542.	1.4	5
48	Synthesis and characterization of fluorophenylpalladium pincer complexes: electronic properties of some pincer ligands evaluated by multinuclear NMR spectroscopy and electrochemical studies. Dalton Transactions, 2011, 40, 7201.	1.6	25
49	Reactions of iridium bis(phosphinite) pincer complexes with protic acids. Russian Chemical Bulletin, 2010, 59, 745-749.	0.4	11
50	Ruthenium bis(phosphinite) pincer complexes. Russian Chemical Bulletin, 2009, 58, 1701-1706.	0.4	4
51	Activation of small molecules by a rhodium bis(phosphinite) pincer complex. Russian Chemical Bulletin, 2009, 58, 1847-1854.	0.4	20
52	Synthesis and structures of complexes Os3(Î¼-H)2(CO)7(Î¼-RC5H3N){Î¼3-Ph2PCH2P(C6H4)Ph} (R = H, Me) with ortho-metalated pyridine ligands. The revised structure of the triosmium cluster â€Os3(Î¼-H)2(CO)7(Î¼-C6H4){Î¼3-Ph2PCH2P(C6H4)Ph}â€• Russian Chemical Bulletin, 2008, 57, 2194-2197.	0.4	4
53	Highly Active Iridium Catalysts for Alkane Dehydrogenation. Synthesis and Properties of Iridium Bis(phosphine) Pincer Complexes Based on Ferrocene and Ruthenocene. Organometallics, 2006, 25, 5466-5476.	1.1	130
54	Letter: Influence of Experimental Conditions on Electrospray Ionization Mass Spectrometry of Ferrocenylalkylazoles. European Journal of Mass Spectrometry, 2006, 12, 137-142.	0.5	10

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55	Synthesis and comparative X-ray diffraction study of first ruthenocene-based pincer palladium complexes, PdCl[{2,5-(But 2PCH2)2C5H2}Ru(Cpâ€²)] (Cpâ€² = C5H5 or C5Me5). Russian Chemical Bulletin, 2006, 55, 1950-1955.	0.4	16
56	Ferrocene-Based Pincer Complexes of Palladium:Â Synthesis, Structures, and Spectroscopic and Electrochemical Properties. Organometallics, 2004, 23, 4585-4593.	1.1	46
57	Iridium hydride complexes with P,C,P pincer ligands based on ferrocene and ruthenocene. Russian Chemical Bulletin, 2003, 52, 516-517.	0.4	12
58	Synthesis and structures of palladium P,C,P pincer complexes based on ferrocene. Russian Chemical Bulletin, 2003, 52, 2754-2756.	0.4	7
59	Palladium pincer complexes Pd(BH4)[{2,5-(R2PCH2)2C5H2}Fe(C5H5)] (R = Pri, But) with unidentate borohydride ligand. Russian Chemical Bulletin, 2003, 52, 2757-2759.	0.4	8
60	Title is missing!. Russian Chemical Bulletin, 2002, 51, 350-353.	0.4	3
61	Title is missing!. Russian Chemical Bulletin, 2002, 51, 1077-1078.	0.4	26