

Lars Kloo

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167
papers

15,228
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122
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186
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16,526
ext. citations

8.4
avg, IF

6.64
L-index

#	Paper	IF	Citations
167	Dye-sensitized solar cells. <i>Chemical Reviews</i> , 2010 , 110, 6595-663	68.1	7291
166	Definition of the halogen bond (IUPAC Recommendations 2013). <i>Pure and Applied Chemistry</i> , 2013 , 85, 1711-1713	2.1	1259
165	Synthesis, structure, and bonding in polyiodide and metal iodide-iodine systems. <i>Chemical Reviews</i> , 2003 , 103, 1649-84	68.1	613
164	Ionic liquid electrolytes for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2008 , 2655-66	4.3	343
163	Carbazole-based hole-transport materials for efficient solid-state dye-sensitized solar cells and perovskite solar cells. <i>Advanced Materials</i> , 2014 , 26, 6629-34	24	320
162	A low-cost spiro[fluorene-9,9'-xanthene]-based hole transport material for highly efficient solid-state dye-sensitized solar cells and perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 873-877	35.4	306
161	Commemorating two centuries of iodine research: an interdisciplinary overview of current research. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11598-620	16.4	221
160	Organic redox couples and organic counter electrode for efficient organic dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9413-22	16.4	214
159	Tailor-Making Low-Cost Spiro[fluorene-9,9'-xanthene]-Based 3D Oligomers for Perovskite Solar Cells. <i>Chem</i> , 2017 , 2, 676-687	16.2	176
158	Layered 2D alkyldiammonium lead iodide perovskites: synthesis, characterization, and use in solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15638-15646	13	134
157	Iodine/iodide-free redox shuttles for liquid electrolyte-based dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 9180	35.4	133
156	Efficient organic-dye-sensitized solar cells based on an iodine-free electrolyte. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7328-31	16.4	110
155	The Importance of Pendant Groups on Triphenylamine-Based Hole Transport Materials for Obtaining Perovskite Solar Cells with over 20% Efficiency. <i>Advanced Energy Materials</i> , 2018 , 8, 1701209	21.8	101
154	AgTFSI as p-type dopant for efficient and stable solid-state dye-sensitized and perovskite solar cells. <i>ChemSusChem</i> , 2014 , 7, 3252-6	8.3	97
153	Phenoxazine-Based Small Molecule Material for Efficient Perovskite Solar Cells and Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1401720	21.8	97
152	A Study of the Interactions between I ³ Redox Mediators and Organometallic Sensitizing Dyes in Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 783-790	3.8	95
151	Facile synthesis of fluorene-based hole transport materials for highly efficient perovskite solar cells and solid-state dye-sensitized solar cells. <i>Nano Energy</i> , 2016 , 26, 108-113	17.1	89

150	Study of Arylamine-Substituted Porphyrins as Hole-Transporting Materials in High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13231-13239	9.5	82
149	Polymeric, Cost-Effective, Dopant-Free Hole Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19700-19707	16.4	81
148	Molten and Solid Trialkylsulfonium Iodides and Their Polyiodides as Electrolytes in Dye-Sensitized Nanocrystalline Solar Cells. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13665-13670	3.4	79
147	Efficient Perovskite Solar Cells Based on a Solution Processable Nickel(II) Phthalocyanine and Vanadium Oxide Integrated Hole Transport Layer. <i>Advanced Energy Materials</i> , 2017 , 7, 1602556	21.8	78
146	High conductivity Ag-based metal organic complexes as dopant-free hole-transport materials for perovskite solar cells with high fill factors. <i>Chemical Science</i> , 2016 , 7, 2633-2638	9.4	78
145	Investigation of Iodine Concentration Effects in Electrolytes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10612-10620	3.8	76
144	The Role of 3D Molecular Structural Control in New Hole Transport Materials Outperforming Spiro-OMeTAD in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1601062	21.8	74
143	Electrolytes for dye-sensitized solar cells based on interhalogen ionic salts and liquids. <i>Inorganic Chemistry</i> , 2007 , 46, 3566-75	5.1	68
142	D-A-D-Typed Hole Transport Materials for Efficient Perovskite Solar Cells: Tuning Photovoltaic Properties via the Acceptor Group. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19697-19703	9.5	65
141	A vibrational spectroscopic, structural and quantum chemical study of the triiodide ion. <i>Dalton Transactions RSC</i> , 2000 , 2449-2455		59
140	Cu(II) Complexes as p-Type Dopants in Efficient Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 497-503.1	5.1	56
139	Nanostructured Two-Component Liquid-Crystalline Electrolytes for High-Temperature Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 6496-6502	9.6	56
138	Development of an organic redox couple and organic dyes for aqueous dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 9752	35.4	55
137	Liquid-Crystalline Dye-Sensitized Solar Cells: Design of Two-Dimensional Molecular Assemblies for Efficient Ion Transport and Thermal Stability. <i>Chemistry of Materials</i> , 2016 , 28, 6493-6500	9.6	55
136	1,1,2,2-Tetrachloroethane (TeCA) as a Solvent Additive for Organic Hole Transport Materials and Its Application in Highly Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1402340	21.8	53
135	Bis(1,1-bis(2-pyridyl)ethane)copper(I/II) as an efficient redox couple for liquid dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14550-14554	13	53
134	The monolithic multicell: a tool for testing material components in dye-sensitized solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 113-121	6.8	53
133	Structure and function relationships in alkylammonium lead(II) iodide solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9201-9207	13	52

132	Electron transport and recombination in dye-sensitized solar cells with ionic liquid electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 586, 56-61	4.1	52
131	On the Intra- and Intermolecular Bonding in Polyiodides. <i>European Journal of Inorganic Chemistry</i> , 2002 , 2002, 1203-1209	2.3	50
130	Photoisomerization of the cyanoacrylic acid acceptor group--a potential problem for organic dyes in solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2251-5	3.6	49
129	Poly(3,4-ethylenedioxythiophene) Hole-Transporting Material Generated by Photoelectrochemical Polymerization in Aqueous and Organic Medium for All-Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16591-16601	3.8	48
128	Ab initio calculations on bismuth cluster polycations. <i>Chemistry - A European Journal</i> , 2001 , 7, 2821-8	4.8	48
127	Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17681-17692	16.4	48
126	Long-term stability for cobalt-based dye-sensitized solar cells obtained by electrolyte optimization. <i>Chemical Communications</i> , 2014 , 50, 6249-51	5.8	45
125	A facile route to grain morphology controllable perovskite thin films towards highly efficient perovskite solar cells. <i>Nano Energy</i> , 2018 , 53, 405-414	17.1	45
124	Design, synthesis and application of a π -conjugated, non-spiro molecular alternative as hole-transport material for highly efficient dye-sensitized solar cells and perovskite solar cells. <i>Journal of Power Sources</i> , 2017 , 344, 11-14	8.9	43
123	The molecular cluster [Bi ₁₀ Au ₂](SbBi ₃ Br ₉) ₂ . <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3932-56.4	56.4	43
122	Dimensional caging of polyiodides. <i>Inorganic Chemistry</i> , 2008 , 47, 11464-6	5.1	41
121	Anionic Diversity in Iodobismuthate Chemistry. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 1497-1501	1.3	40
120	Molten and solid metal-iodide-doped trialkylsulphonium iodides and polyiodides as electrolytes in dye-sensitized nanocrystalline solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 82, 345-360	6.4	39
119	Nobel-Metal Centered Polycations [Au@Bi ₁₀] ⁵⁺ or [Pd@Bi ₁₀] ⁴⁺ Embedded in Halogenido-Bismuthate(III)-Stannate(II) Frameworks. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 743-752	1.3	38
118	Synergistic Effect of N-Methylbenzimidazole and Guanidinium Thiocyanate on the Performance of Dye-Sensitized Solar Cells Based on Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22330-22337	3.8	37
117	Design and synthesis of dopant-free organic hole-transport materials for perovskite solar cells. <i>Chemical Communications</i> , 2018 , 54, 9571-9574	5.8	36
116	Towards implementing hierarchical porous zeolitic imidazolate frameworks in dye-sensitized solar cells. <i>Royal Society Open Science</i> , 2019 , 6, 190723	3.3	36
115	Metal Iodides in Polyiodide Networks—The Structural Chemistry of Complex Gold Iodides with Excess Iodine. <i>Chemistry - A European Journal</i> , 1999 , 5, 305-311	4.8	36

114	The combination of a new organic D π A dye with different organic hole-transport materials for efficient solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4420-4427	13	35
113	Highly Efficient Integrated Perovskite Solar Cells Containing a Small Molecule-PC70BM Bulk Heterojunction Layer with an Extended Photovoltaic Response Up to 900 nm. <i>Chemistry of Materials</i> , 2016 , 28, 8631-8639	9.6	35
112	A highly efficient colourless sulfur/iodide-based hybrid electrolyte for dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 3625	3.7	35
111	Sb ₈ (GaCl ₄) ₂ : Isolation of a homopolyatomic antimony cation. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2540-3	16.4	35
110	Molecular engineering of D π A sensitizers for highly efficient solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3157-3166	13	34
109	A quasi-liquid polymer-based cobalt redox mediator electrolyte for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17419-25	3.6	33
108	Formation of N719 dye multilayers on dye sensitized solar cell photoelectrode surfaces investigated by direct determination of element concentration depth profiles. <i>Langmuir</i> , 2012 , 28, 9431-4	4	33
107	On the early development of organic dyes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2013 , 49, 6580-3	5.8	33
106	Crystal formation involving 1-methylbenzimidazole in iodide/triiodide electrolytes for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 1062-1065	6.4	33
105	Regeneration of oxidized organic photo-sensitizers in gr \ddot{u} zel solar cells: quantum-chemical portrait of a general mechanism. <i>ChemPhysChem</i> , 2010 , 11, 1858-62	3.2	32
104	On the correlation between dye coverage and photoelectrochemical performance in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 711-8	3.6	31
103	Parallel-connected monolithic dye-sensitised solar modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2010 , 18, 340-345	6.8	31
102	The Molecular Cluster [Bi ₁₀ Au ₂](SbBi ₃ Br ₉) ₂ . <i>Angewandte Chemie</i> , 2008 , 120, 3996-3999	3.6	31
101	Synthesis of Main Group Polycations in Molten and Pseudo-Molten GaBr ₃ Media. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 4907-4913	2.3	31
100	Binuclear palladium(I) and platinum(I) dimers stabilized by aromatic ligands: synthesis, structural characterization and reactivity with carbon monoxide. <i>Inorganica Chimica Acta</i> , 2003 , 350, 449-454	2.7	30
99	Solution processable, cross-linked sulfur polymers as solid electrolytes in dye-sensitized solar cells. <i>Chemical Communications</i> , 2015 , 51, 14660-2	5.8	29
98	Reaction between palladium(II) and gallium(III) halogenides in arenes: influence of halogen nature on the formation of binuclear palladium(I) clusters. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 489-492	2.3	29
97	Improvements of and Insights into the Isolation of Bismuth Polycations from Benzene Solution □ Single-Crystal Structure Determinations of Bi ₈ [GaCl ₄] ₂ and Bi ₅ [GaCl ₄] ₃ . <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 670-675	2.3	29

96	Impact of synthetic routes on the structural and physical properties of butyl-1,4-diammonium lead iodide semiconductors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11730-11738	13	28
95	On the Structure of Nonastannide Clusters in Liquid and Solid State. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2888-2894	2.3	28
94	Electrolytes based on TEMPO-Co tandem redox systems outperform single redox systems in dye-sensitized solar cells. <i>ChemSusChem</i> , 2015 , 8, 264-8	8.3	26
93	Incompletely solvated ionic liquid mixtures as electrolyte solvents for highly stable dye-sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 1896-1901	3.7	26
92	High performance solid-state dye-sensitized solar cells based on organic blue-colored dyes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1242-1247	13	25
91	Solvent-free ionic liquid electrolytes without elemental iodine for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11592-5	3.6	25
90	Trends in patent applications for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 7376	35.4	25
89	Metal Iodides in Polyiodide Networks: Synthesis and Structure of Binary Metal Iodide-Iodine Compounds Stable under Ambient Conditions. <i>Inorganic Chemistry</i> , 1999 , 38, 3390-3393	5.1	24
88	Dipicolinic acid: a strong anchoring group with tunable redox and spectral behavior for stable dye-sensitized solar cells. <i>Chemical Communications</i> , 2015 , 51, 3858-61	5.8	23
87	A Perylenediimide Tetramer-Based 3D Electron Transport Material for Efficient Planar Perovskite Solar Cell. <i>Solar Rrl</i> , 2017 , 1, 1700046	7.1	22
86	Tetrathiafulvalene as a one-electron iodine-free organic redox mediator in electrolytes for dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 1083-1087	3.7	22
85	Molecular scale characterization of the titania-dye-solvent interface in dye-sensitized solar cells. <i>Langmuir</i> , 2010 , 26, 9612-6	4	22
84	Atomistic Insight into Tetraalkylphosphonium Bis(oxalato)borate Ionic Liquid/Water Mixtures. 2. Volumetric and Dynamic Properties. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7446-55	3.4	22
83	Solvation structures of water in trihexyltetradecylphosphonium-orthoborate ionic liquids. <i>Journal of Chemical Physics</i> , 2016 , 145, 064507	3.9	22
82	Molecular Engineering of D-D-EA-Based Organic Sensitizers for Enhanced Dye-Sensitized Solar Cell Performance. <i>ACS Omega</i> , 2018 , 3, 3819-3829	3.9	21
81	Electronic and Structural Effects of Inner Sphere Coordination of Chloride to a Homoleptic Copper(II) Diimine Complex. <i>Inorganic Chemistry</i> , 2018 , 57, 4556-4562	5.1	21
80	A novel phenoxazine-based hole transport material for efficient perovskite solar cell. <i>Journal of Energy Chemistry</i> , 2015 , 24, 698-706	12	20
79	Cation-Dependent Photostability of Co(II/III)-Mediated Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24704-24713	3.8	20

78	Electronic Structure of Two-Dimensional Lead(II) Iodide Perovskites: An Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2018 , 30, 4959-4967	9.6	20
77	Zweihundert Jahre Iodforschung: ein interdisziplinärer Überblick über die derzeitige Forschung. <i>Angewandte Chemie</i> , 2011 , 123, 11802-11825	3.6	20
76	Iodoargentates and Cuprates Stabilized by Sulfonium Cations With Long Alkyl Chains. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 2352-2355	2.3	20
75	A study of oligothiophene-acceptor dyes in p-type dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 18165-18179	5.7	19
74	Synthesis and characterization of binuclear palladium(II) compounds and the influence of competing arenes. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 1513-1517	2.3	19
73	Investigations of the polyiodides H ₃ O ⁺ _x (x = 3, 5 or 7) as dibenzo-18-crown-6 complexes. <i>Dalton Transactions RSC</i> , 2000 , 1061-1065		19
72	Composite Hole-Transport Materials Based on a Metal-Organic Copper Complex and Spiro-OMeTAD for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1700073	7.1	18
71	Sb ₈ (GaCl ₄) ₂ : Isolation of a Homopolyatomic Antimony Cation. <i>Angewandte Chemie</i> , 2004 , 116, 2594-2597	3.6	18
70	Electrochemical synthesis, X-ray single crystal, IR spectroscopic, and quantum chemical investigation of molybdenum and tungsten hexamethoxides. <i>Inorganic Chemistry</i> , 2001 , 40, 3815-8	5.1	18
69	Structure and Bonding of the Manganese(II) Phosphide Complex (t-BuPH ₂) ₂ (t-Bu-Cp)Mn{[t-BuPH] ₂ Mn(Cp)}(t-BuPH ₂). <i>Organometallics</i> , 2012 , 31, 23-26	3.8	17
68	Efficient Dye-Sensitized Solar Cells with Voltages Exceeding 1 V through Exploring Tris(4-alkoxyphenyl)amine Mediators in Combination with the Tris(bipyridine) Cobalt Redox System. <i>ACS Energy Letters</i> , 2018 , 3, 1929-1937	20.1	16
67	Two Redox Couples are Better Than One: Improved Current and Fill Factor from Cobalt-Based Electrolytes in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301273	21.8	16
66	Structural Investigation of a Fully Ordered closo-Ge ₉ Cluster in the Compound [K ⁺ (2,2,2-crypt)] ₂ Ge ₉ . <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 3999-4005	2.3	16
65	Novel Layered Structures Formed by Iodocuprate Clusters Stabilized by Dialkylsulfide Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004 , 630, 413-416	1.3	16
64	Investigation of cobalt redox mediators and effects of TiO ₂ film topology in dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 56580-56588	3.7	15
63	Investigation of Triphenylamine (TPA)-Based Metal Complexes and Their Application in Perovskite Solar Cells. <i>ACS Omega</i> , 2017 , 2, 9231-9240	3.9	14
62	A One-Dimensional Metal Embedded in Salt Matrices: Synthesis, Modulated Crystal Structures, Electrical Conductivity, and Chemical Bonding of [PdBi ₆] _n [(Bi,Sn) ₁₀ Br ₅] _n . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 1979-1985	1.3	14
61	Photoelectrochemical studies of ionic liquid-containing solar cells sensitized with different polypyridylruthenium complexes. <i>Polyhedron</i> , 2009 , 28, 757-762	2.7	14

60	Polyiodide Hybrid Perovskites: A Strategy To Convert Intrinsic 2D Systems into 3D Photovoltaic Materials. <i>ACS Applied Energy Materials</i> , 2019 , 2, 477-485	6.1	14
59	Self-Assembled Liquid-Crystalline Ion Conductors in Dye-Sensitized Solar Cells: Effects of Molecular Sensitizers on Their Performance. <i>ChemPlusChem</i> , 2017 , 82, 834-840	2.8	13
58	Exploring the Optical and Electrochemical Properties of Homoleptic versus Heteroleptic Diimine Copper(I) Complexes. <i>Inorganic Chemistry</i> , 2019 , 58, 12167-12177	5.1	13
57	Dimeric palladium and platinum complexes isolated in Lewis-acidic media. <i>Inorganica Chimica Acta</i> , 2009 , 362, 605-609	2.7	13
56	Organic Salts as p-Type Dopants for Efficient LiTFSI-Free Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33751-33758	9.5	12
55	Light-induced electrolyte improvement in cobalt tris(bipyridine)-mediated dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19495-19505	13	12
54	A crosslinked polymer as dopant-free hole-transport material for efficient n-i-p type perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 55, 211-218	12	12
53	Cross-Linked Sulfur/Belenium Polymers as Hole-Transporting Materials in Dye-Sensitized Solar Cells and Perovskite Solar Cells. <i>ChemPhotoChem</i> , 2017 , 1, 363-368	3.3	11
52	Novel and Stable D-A- π Dyes for Efficient Solid-State Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2017 , 2, 1812-1819	3.9	11
51	Aqueous Solvation and Surface Oxidation of the Cu ₇ Nanoparticle: Insights from Theoretical Modeling. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1977-1988	3.8	11
50	Comparison between Benzothiadizole-Thiophene- and Benzothiadizole-Furan-Based D-A- π Dyes Applied in Dye-Sensitized Solar Cells: Experimental and Theoretical Insights. <i>ACS Omega</i> , 2020 , 5, 16856-16864 ¹⁰	3.9	10
49	Implicit Tandem Organic-Inorganic Hybrid Perovskite Solar Cells Based on Internal Dye Sensitization: Robotized Screening, Synthesis, Device Implementation, and Theoretical Insights. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18437-18448	16.4	10
48	Restructuring of Dye Layers in Dye Sensitized Solar Cells: Cooperative Adsorption of N719 and Chenodeoxycholic Acid on Titania. <i>ACS Applied Energy Materials</i> , 2019 , 2, 124-130	6.1	10
47	New metal-rich mixed chalcogenides with intergrowth structures: Ni _{8.21} Ge ₂ S ₂ and Ni _{8.45} Ge ₂ Se ₂ . <i>Solid State Sciences</i> , 2009 , 11, 1071-1076	3.4	9
46	Mononuclear π -Arene Complexes of Lanthanides: One-Step Syntheses, Crystal Structures, and Arene Exchange. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 5191-5195	2.3	9
45	Bi1614 π -A New Bismuth Subiodide: An Analysis of Molecular Packing and Electronic Structures of the Compounds in the Bi _m I ₄ (m = 14, 16, 18) Family. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 5196-5202	2.3	9
44	One-step synthesis of a platinum(0)-gallium(III) chrysene complex. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3906-9	16.4	9
43	Energy-Loss Reduction as a Strategy to Improve the Efficiency of Dye-Sensitized Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900253	7.1	8

42	An Indacenodithieno[3,2-b]thiophene-Based Organic Dye for Solid-State p-Type Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2019 , 12, 3243-3248	8.3	8
41	Single crystal structure and opto-electronic properties of oxidized Spiro-OMeTAD. <i>Chemical Communications</i> , 2020 , 56, 1589-1592	5.8	8
40	Impact of Linking Topology on the Properties of Carbazole-Based Hole-Transport Materials and their Application in Solid-State Mesoscopic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900196	7.1	8
39	Exploring Overall Photoelectric Applications by Organic Materials Containing Symmetric Donor Isomers. <i>Chemistry of Materials</i> , 2019 , 31, 8810-8819	9.6	8
38	Formation of carbonated apatite particles from a supersaturated inorganic blood serum model. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1677-87	4.5	8
37	Optimization of the synthesis of non-symmetrical alkyl dimethyl sulfonium halides. <i>Polyhedron</i> , 2007 , 26, 4893-4898	2.7	8
36	Syntheses and Crystal Structures of New Palladium(II) and Platinum(IV) Trialkylsulfonium Compounds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007 , 633, 643-646	1.3	8
35	Room-Temperature Synthesis of the Bi5[GaCl4]3 Salt From Three Different Classes of Ionic Liquids. <i>Journal of Cluster Science</i> , 2013 , 24, 157-164	3	7
34	Dichloromethane as solvent for the synthesis of polycationic clusters at room temperature--a link to standard organometallic chemistry. <i>Dalton Transactions</i> , 2010 , 39, 8132-4	4.3	7
33	Reaction of SDS with Ozone and OH Radicals in Aqueous Solution. <i>Ozone: Science and Engineering</i> , 2007 , 29, 131-138	2.4	7
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