

# Airody Vasudeva Adhikari

## List of Publications by Year in descending order

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92  
papers

3,191  
citations

159585

30  
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168389

53  
g-index

92  
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92  
docs citations

92  
times ranked

3475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbazole based organic dyes as effective photosensitizers: A comprehensive analysis of their structureâ€”property relationships. <i>Electrochemical Science Advances</i> , 2022, 2, e2100061.	2.8	7
2	Simple 3,6â€”disubstituted Carbazoles as Potential Hole Transport Materials: Photophysical, Electrochemical and Theoretical Studies. <i>Photochemistry and Photobiology</i> , 2021, 97, 289-300.	2.5	13
3	New cyanopyridineâ€”based Î€-conjugative poly(azomethine)s: Synthesis, characterization and electroluminescence studies. <i>Polymers for Advanced Technologies</i> , 2021, 32, 131-141.	3.2	7
4	Improving the Performance of Carbon-Based Perovskite Solar Modules (70 cm <sup>2</sup> ) by Incorporating Cesium Halide in Mesoporous TiO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , 2021, 4, 249-258.	5.1	9
5	Simple carbazole derivatives with mono/dimethoxyphenylacrylonitrile substituents as holeâ€”transporting materials: Performance studies in hybrid perovskite solar cells. <i>Electrochemical Science Advances</i> , 2021, 1, e2000036.	2.8	5
6	New cyanopyridine based conjugated polymers carrying auxiliary electron donors: From molecular design to blue emissive PLEDs. <i>Dyes and Pigments</i> , 2020, 174, 108046.	3.7	11
7	Simple thiophene-bridged Dâ€”A type chromophores for DSSCs: a comprehensive study of their sensitization and co-sensitization properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23169-23184.	2.8	22
8	Nicotinonitrile centered luminescent polymeric materials: Structural, optical, electrochemical, and theoretical investigations. <i>Polymer Engineering and Science</i> , 2020, 60, 2550-2559.	3.1	8
9	Synthesis, characterization and electroluminescence studies of cyanopyridine-based Î€-conjugative polymers carrying benzo[1,2,5]thiadiazole and naphtho[1,2-c:5,6-c']bis([1,2,5]thiadiazole) units. <i>New Journal of Chemistry</i> , 2020, 44, 10796-10805.	2.8	8
10	Solvent selection for highly reproducible carbon-based mixed-cation hybrid lead halide perovskite solar cells via adduct approach. <i>Solar Energy</i> , 2020, 199, 761-771.	6.1	10
11	Simple Thiophene Based Organic Dyes as Active Photosensitizers for DSSC Application: from Molecular Design to Structure Property Relationship. <i>Journal of Nano- and Electronic Physics</i> , 2020, 12, 02039-1-02039-5.	0.5	4
12	New cyanopyridone-based unsymmetrical dyads: the effect of donor strength on their optoelectronic properties. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2052-2060.	2.9	4
13	Asymmetric Dual Anchoring Sensitizers/Cosensitizers for Dye Sensitized Solar Cell Application: An Insight into Various Fundamental Processes inside the Cell. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24383-24395.	3.1	13
14	Simple diphenylamine based Dâ€”A type sensitizers/co-sensitizers for DSSCs: a comprehensive study on the impact of anchoring groups. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10603-10613.	2.8	17
15	Reduction of nitro compounds carrying electron withdrawing groups: A convenient approach without metal catalyst. <i>Chemical Data Collections</i> , 2019, 20, 100211.	2.3	0
16	New blue light emitting cyanopyridine based conjugated polymers: From molecular engineering to PLED applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 378, 38-45.	3.9	19
17	Columnar self-assembly of novel benzylidenehydrazones and their difluoroboron complexes: structureâ€”property correlations. <i>New Journal of Chemistry</i> , 2019, 43, 7099-7108.	2.8	6
18	Self-assembly of taper- and wedge-shaped maleimide derivatives: Synthesis and structure-property relationship. <i>Journal of Molecular Liquids</i> , 2019, 284, 765-772.	4.9	3

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19	Highly fluorescent materials derived from ortho-vanillin: Structural, photophysical electrochemical and theoretical studies. <i>Journal of Molecular Liquids</i> , 2019, 275, 792-806.	4.9	13
20	Supramolecular columnar self-assembly of wedge-shaped rhodanine based dyes: Synthesis and optoelectronic properties. <i>Journal of Molecular Liquids</i> , 2019, 274, 215-222.	4.9	6
21	Enhancing photovoltaic performance of DSSCs sensitized with Ru-II complexes by D- $\pi$ -A configured carbazole based co-sensitizers. <i>New Journal of Chemistry</i> , 2018, 42, 9443-9448.	2.8	19
22	New carbazole based dyes as effective co-sensitizers for DSSCs sensitized with ruthenium (II) complex (NCSU-10). <i>Journal of Energy Chemistry</i> , 2018, 27, 351-360.	12.9	57
23	New di-anchoring A- $\pi$ -D- $\pi$ -A configured organic chromophores for DSSC application: sensitization and co-sensitization studies. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 302-314.	2.9	47
24	Investigation of new carbazole based metal-free dyes as active photo-sensitizers/co-sensitizers for DSSCs. <i>Dyes and Pigments</i> , 2018, 149, 177-187.	3.7	56
25	New fluorescent columnar mesogens derived from phenanthrene- $\pi$ -cyanopyridone hybrids for OLED applications. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2297-2306.	5.9	15
26	An Efficient Aniline- $\pi$ -Based Co- $\pi$ -Sensitizer for High Performance N3- $\pi$ -Sensitized Solar Cells. <i>ChemistrySelect</i> , 2018, 3, 12297-12302.	1.5	8
27	Improvement in performance of N3 sensitized DSSCs with structurally simple aniline based organic co-sensitizers. <i>Solar Energy</i> , 2018, 174, 999-1007.	6.1	28
28	Optoelectronic exploration of novel non-symmetrical star-shaped discotic liquid crystals based on cyanopyridine. <i>New Journal of Chemistry</i> , 2018, 42, 16999-17008.	2.8	6
29	Highly efficient carbazole based co-sensitizers carrying electron deficient barbituric acid for NCSU-10 sensitized DSSCs. <i>Solar Energy</i> , 2018, 169, 386-391.	6.1	27
30	New cyanopyridine based conjugative polymers as blue emitters: Synthesis, photophysical, theoretical and electroluminescence studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 6-15.	3.9	11
31	Hydrogen bond-driven columnar self-assembly of electroluminescent D- $\pi$ -A configured cyanopyridones. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7385-7399.	5.5	20
32	Synthesis and photovoltaic performance of a novel asymmetric dual-channel co-sensitizer for dye-sensitized solar cell beyond 10% efficiency. <i>Dyes and Pigments</i> , 2017, 141, 112-120.	3.7	38
33	Blue emitting 1,8-naphthalimides with electron transport properties for organic light emitting diode applications. <i>Journal of Molecular Structure</i> , 2017, 1143, 344-354.	3.6	21
34	Molecular design and theoretical investigation of new metal-free heteroaromatic dyes with D- $\pi$ -A architecture as photosensitizers for DSSC application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 345, 63-73.	3.9	49
35	Exploring the application of new carbazole based dyes as effective p-type photosensitizers in dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 157, 1064-1073.	6.1	30
36	Improved photovoltaic performances of Ru (II) complex sensitized DSSCs by co-sensitization of carbazole based chromophores. <i>Inorganic Chemistry Communication</i> , 2017, 86, 241-245.	3.9	15

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37	Structurally simple D-π-A-type organic sensitizers for dye-sensitized solar cells: effect of anchoring moieties on the cell performance. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2457-2466.	2.2	23
38	New carbazole based metal-free organic dyes with D-π-A architecture for DSSCs: Synthesis, theoretical and cell performance studies. <i>Solar Energy</i> , 2017, 153, 600-610.	6.1	87
39	Green Synthesis of Silver and Gold Nanoparticles Using Root Bark Extract of <i>Mammea suriga</i> : Characterization, Process Optimization, and Their Antibacterial Activity. <i>BioNanoScience</i> , 2016, 6, 110-120.	3.5	30
40	Highly efficient panchromatic dye-sensitized solar cells: Synergistic interaction of ruthenium sensitizer with novel co-sensitizers carrying different acceptor units. <i>Dyes and Pigments</i> , 2016, 132, 316-328.	3.7	28
41	From Molecular Design to Co-sensitization; High performance indole based photosensitizers for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 198, 10-21.	5.2	36
42	New indole based co-sensitizers for dye sensitized solar cells exceeding 10% efficiency. <i>RSC Advances</i> , 2016, 6, 30205-30216.	3.6	34
43	Extraction, characterization and biological studies of phytochemicals from <i>Mammea suriga</i> . <i>Journal of Pharmaceutical Analysis</i> , 2015, 5, 182-189.	5.3	61
44	Molecular Engineering and Theoretical Investigation of Novel Metal-Free Organic Chromophores for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 176, 868-879.	5.2	39
45	New D-π-A type indole based chromogens for DSSC: Design, synthesis and performance studies. <i>Dyes and Pigments</i> , 2015, 112, 183-191.	3.7	70
46	Trihydrazone functionalized cyanopyridine discoids: synthesis, mesogenic and optical properties. <i>Tetrahedron Letters</i> , 2014, 55, 495-500.	1.4	14
47	New 6-bromoimidazo[1,2-a]pyridine-2-carbohydrazide derivatives: synthesis and anticonvulsant studies. <i>Medicinal Chemistry Research</i> , 2014, 23, 3019-3028.	2.4	16
48	New luminescent 2-methoxy-6-(4-methoxy-phenyl)-4-p-tolyl-nicotinonitrile: Synthesis, crystal structure, DFT and photophysical studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 124, 230-236.	3.9	10
49	New columnar liquid crystal materials based on luminescent 2-methoxy-3-cyanopyridines. <i>Structural Chemistry</i> , 2014, 25, 1165-1174.	2.0	29
50	New 4-(2-(4-alkoxyphenyl)-6-methoxypyridin-4-yl)benzonitriles: synthesis, liquid crystalline behavior and photo physical properties. <i>CrystEngComm</i> , 2014, 16, 5573-5582.	2.6	20
51	2-Methoxypyridine derivatives: synthesis, liquid crystalline and photo-physical properties. <i>New Journal of Chemistry</i> , 2014, 38, 5018-5029.	2.8	24
52	New cyanopyridone based luminescent liquid crystalline materials: synthesis and characterization. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1496-1508.	2.9	20
53	Synthesis and antiepileptic studies of new imidazo[1,2-a]pyridine derivatives. <i>Chinese Chemical Letters</i> , 2013, 24, 853-856.	9.0	18
54	Synthesis, anticonvulsant and anti-inflammatory studies of new 1,4-dihydropyridin-4-yl-phenoxycetohydrazones. <i>European Journal of Medicinal Chemistry</i> , 2013, 70, 341-349.	5.5	35

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55	Optical limiting materials: Synthesis, electrochemical and optical studies of new thiophene based conjugated polymers carrying 1,3,4-oxadiazole units. <i>Polymer Engineering and Science</i> , 2013, 53, 1347-1356.	3.1	10
56	New imidazo[1,2-a]pyridines carrying active pharmacophores: Synthesis and anticonvulsant studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 1502-1506.	2.2	59
57	Facile synthesis of new imidazo[1,2-a]pyridines carrying 1,2,3-triazoles via click chemistry and their antiepileptic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3368-3372.	2.2	60
58	New dihydropyridine derivatives: anti-inflammatory, analgesic and docking studies. <i>Medicinal Chemistry Research</i> , 2013, 22, 1549-1562.	2.4	12
59	Synthesis and mesomorphism of new 2-methoxy-3-cyanopyridine mesogens. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
60	Electrochemical and Nonlinear Optical Studies of New D <sup>π</sup> A Type $\pi$ -Conjugated Polymers Carrying 3,4-Benzoyloxythiophene, Oxadiazole, and 3,4-Alkoxythiophene Systems. <i>Chemistry Letters</i> , 2012, 41, 234-236.	1.3	2
61	New diphenylamine-based donor-acceptor-type conjugated polymers as potential photonic materials. <i>Reactive and Functional Polymers</i> , 2011, 71, 1119-1128.	4.1	20
62	Synthesis, electrochemical and optical studies of new cyanopyridine based conjugated polymers as potential fluorescent materials. <i>Polymer</i> , 2011, 52, 4174-4183.	3.8	20
63	Design, synthesis and docking studies of new quinoline-3-carbohydrazide derivatives as antitubercular agents. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 5283-5292.	5.5	99
64	Design, synthesis and docking studies of quinoline-oxazolidinone hybrid molecules and their antitubercular properties. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4834-4845.	5.5	40
65	New quinolin-4-yl-1,2,3-triazoles carrying amides, sulphonamides and amidopiperazines as potential antitubercular agents. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 2503-2512.	5.5	86
66	New quinoline derivatives: Synthesis and investigation of antibacterial and antituberculosis properties. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 3374-3383.	5.5	175
67	3,3'-Benzene-1,4-diylbis[1-(substituted)phenylprop-2-en-1-one] derivatives: A new class of materials for third-order nonlinear optical applications. <i>Optics Communications</i> , 2010, 283, 1519-1527.	2.1	43
68	Synthesis and characterization of a new NLO-active donor-acceptor-type conjugated polymer derived from 3,4-diphenylthiophene. <i>Journal of Polymer Research</i> , 2010, 17, 495-502.	2.4	7
69	Nonlinear optical and optical power limiting studies on a new thiophene-based conjugated polymer in solution and solid PMMA matrix. <i>Optics and Laser Technology</i> , 2010, 42, 230-236.	4.6	78
70	Design and synthesis of some new quinoline-3-carbohydrazone derivatives as potential antimycobacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1040-1044.	2.2	77
71	New 1,3-oxazolo[4,5-c]quinoline derivatives: Synthesis and evaluation of antibacterial and antituberculosis properties. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 957-966.	5.5	84
72	Design, synthesis and antimicrobial activities of some new quinoline derivatives carrying 1,2,3-triazole moiety. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 3803-3810.	5.5	128

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73	New Hydrazides and Thiosemicarbazides Derived from Ethylenedioxythiophene as Potential Anticonvulsants. Phosphorus, Sulfur and Silicon and the Related Elements, 2010, 185, 1358-1368.	1.6	6
74	Design and Synthesis of New Amides and Thioamides Derived from 3,4-Ethylenedioxythiophene as Potential Anticonvulsants. Bulletin of the Korean Chemical Society, 2010, 31, 3318-3326.	1.9	10
75	effective inhibitor of mild steel corrosion in acid media. Materials Chemistry and Physics, 2009, 115, 618-627.	4.0	50
76	Optical characterization of a new donor-acceptor type conjugated polymer derived from 3,4-diphenylthiophene. Journal of Materials Science, 2009, 44, 6069-6077.	3.7	17
77	Nonlinear optical studies of newly synthesized polythiophenes containing pyridine and 1,3,4-oxadiazole units. Polymer Engineering and Science, 2009, 49, 875-880.	3.1	4
78	Synthesis of some new 4-styryltetrazolo[1,5-a]quinoxaline and 1-substituted-4-styryl[1,2,4]triazolo[4,3-a]quinoxaline derivatives as potent anticonvulsants. European Journal of Medicinal Chemistry, 2009, 44, 1135-1143.	5.5	66
79	Synthesis and anticonvulsant activity of some new bishydrazones derived from 3,4-dipropoxythiophene. European Journal of Medicinal Chemistry, 2009, 44, 3672-3679.	5.5	20
80	A new class of anticonvulsants possessing 6Hz activity: 3,4-Dialkyloxy thiophene bishydrazones. European Journal of Medicinal Chemistry, 2009, 44, 4376-4384.	5.5	66
81	Synthesis and antimicrobial activities of novel quinoline derivatives carrying 1,2,4-triazole moiety. European Journal of Medicinal Chemistry, 2009, 44, 4637-4647.	5.5	240
82	Design and synthesis of new donor-acceptor type conjugated copolymers derived from thiophenes. European Polymer Journal, 2009, 45, 763-771.	5.4	8
83	Synthesis and nonlinear optical characterization of new poly{2,2-(3,4-didodecyloxythiophene-2,5-diyl)bis[5-(2-thienyl)-1,3,4-oxadiazole]}. Synthetic Metals, 2009, 159, 1099-1105.	3.9	21
84	Inhibition of corrosion of mild steel in acid media by N-benzylidene-3-(quinolin-4-ylthio)propanohydrazide. Bulletin of Materials Science, 2008, 31, 699-711.	1.7	97
85	Nonlinear optical properties of p-(N,N-dimethylamino)dibenzylideneacetone doped polymer. Materials Research Bulletin, 2008, 43, 707-713.	5.2	18
86	Quinolin-5-ylmethylene-3-[[8-(trifluoromethyl)quinolin-4-yl]thio]propanohydrazide as an effective inhibitor of mild steel corrosion in HCl solution. Corrosion Science, 2008, 50, 55-61.	6.6	196
87	Synthesis of Some Novel 2,4-Disubstituted Thiazoles as Possible Antimicrobial Agents. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 183, 1285-1300.	1.6	5
88	Synthesis and Antimicrobial Activities of Some novel 1,3,4-Oxadiazoles Carrying Alkylthio and Alkylsulphonyl phenoxy Moieties. Phosphorus, Sulfur and Silicon and the Related Elements, 2007, 182, 2925-2941.	1.6	14
89	Synthesis and antimicrobial activities of some novel 1,2,4-triazolo[3,4-b]-1,3,4-thiadiazoles and 1,2,4-triazolo[3,4-b]-1,3,4-thiadiazines carrying thioalkyl and sulphonyl phenoxy moieties. European Journal of Medicinal Chemistry, 2007, 42, 521-529.	5.5	105
90	Synthesis and characterization of fluorescent poly(oxadiazole)s containing 3,4-dialkoxythiophenes. Optical Materials, 2007, 29, 1710-1718.	3.6	19

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91	Nonlinear Optical Studies on a New Poly{2-(biphenyl-4-yl)-5-[3,4-didecyloxy-5-(1,3,4-oxadiazol-2-yl)thiophen-2-yl]-1,3,4-oxadiazole}. Materials Science Forum, 0, 657, 56-61.	0.3	2
92	Optical and Electrochemical Properties of a New Donor-Acceptor Type Conjugated Polymer Derived from Thiophene, Carbazole and 1,3,4-Oxadiazole Units. Materials Science Forum, 0, 657, 46-55.	0.3	1