

# Aravinda M Kini

## List of Publications by Year in descending order

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44  
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#	ARTICLE	IF	CITATIONS
1	A new ambient-pressure organic superconductor, $\kappa$ -(ET) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br, with the highest transition temperature yet observed (inductive onset T <sub>c</sub> = 11.6 K, resistive onset = 12.5 K). <i>Inorganic Chemistry</i> , 1990, 29, 2555-2557.	1.9	630
2	From semiconductor-semiconductor transition (42 K) to the highest-T <sub>c</sub> organic superconductor, $\kappa$ -(ET) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Cl (T <sub>c</sub> = 12.5 K). <i>Inorganic Chemistry</i> , 1990, 29, 3272-3274.	1.9	478
3	Superconductivity at 5.2 K in an Electron Donor Radical Salt of Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) with the Novel Polyfluorinated Organic Anion SF <sub>5</sub> CH <sub>2</sub> CF <sub>2</sub> SO <sub>3</sub> <sup>-</sup> . <i>Journal of the American Chemical Society</i> , 1996, 118, 9996-9997.	6.6	139
4	The first ambient pressure organic superconductor containing oxygen in the donor molecule, $\beta$ -m-(BEDO-TTF) <sub>3</sub> Cu <sub>2</sub> (NCS) <sub>3</sub> , T <sub>c</sub> = 1.06 K. <i>Inorganic Chemistry</i> , 1990, 29, 1599-1601.	1.9	123
5	Synthesis, ESR studies, band electronic structure, and superconductivity in the (BEDT-TTF) <sub>2</sub> M(NCS) <sub>2</sub> system (M = copper, silver, gold, BEDT-TTF = bis(ethylenedithio)tetrathiafulvalene). <i>Inorganic Chemistry</i> , 1988, 27, 965-967.	1.9	64
6	Synthesis of the new highest T <sub>c</sub> ambient-pressure organic superconductor, $\kappa$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br, by five different routes. <i>Chemistry of Materials</i> , 1990, 2, 482-484.	3.2	57
7	Dzialoshinskii-Moriya interaction in the organic superconductor $\kappa$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Cl. <i>Physical Review B</i> , 2003, 68, .	1.1	50
8	Crystal structure, physical properties and electronic structure of a new organic conductor $\kappa$ -(BEDT-TTF) <sub>2</sub> SF <sub>5</sub> CHFCF <sub>2</sub> SO <sub>3</sub> . <i>Journal of Materials Chemistry</i> , 2001, 11, 2008-2013.	6.7	42
9	Single-crystal X-ray and neutron diffraction investigations of the temperature dependence of the structure of the T <sub>c</sub> = 10 K organic superconductor $\beta$ -(ET) <sub>2</sub> Cu(NCS) <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 1991, 94, 352-361.	1.4	34
10	The crystal structures and physical properties of polymeric (BEDT-TTF)-metallothiocyanates. <i>Synthetic Metals</i> , 1988, 27, A235-A241.	2.1	31
11	Trifluoromethylsulfonyl-Based Salts of BEDT-TTF: Crystal and Electronic Structures and Physical Properties. <i>Journal of Solid State Chemistry</i> , 2002, 168, 524-534.	1.4	28
12	Trifluoromethylmetallate anions as components of molecular charge transfer salts and superconductors. <i>Coordination Chemistry Reviews</i> , 1999, 190-192, 781-810.	9.5	27
13	4,5-Ethylenedioxy-4,5-ethylenedithiotetrathiafulvalene (EOET): a new unsymmetrical electron donor. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 647-648.	2.0	26
14	Observation of two different -C-C-H bending modes in the Ambient-Pressure organic superconductor $\beta$ -(ET) <sub>2</sub> Cu(NCS) <sub>2</sub> by polarized infrared reflectance measurements and implications on its structural and physical properties. <i>Solid State Communications</i> , 1988, 68, 917-921.	0.9	23
15	Precise Determination of the Orientation of the Dzialoshinskii-Moriya Vector in $\kappa$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Cl. <i>Physical Review Letters</i> , 2004, 93, 167002.	2.9	23
16	A two-dimensional radical salt based upon BEDT-TTF and the dimeric, magnetic anion [Fe(tdas) <sub>2</sub> ] <sub>2</sub> : (BEDT-TTF) <sub>2</sub> [Fe(tdas) <sub>2</sub> ] (tdas = 1,2,5-thiadiazole-3,4-dithiolate). <i>Journal of Materials Chemistry</i> , 2002, 12, 3570-3577.	6.7	22
17	4,5-Methylenedithio-4,5-ethylenedithiotetrathiafulvalene: a new, unsymmetrical electron donor. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 335-336.	2.0	21
18	Unsymmetrically Substituted Ethylenedioxytetrathiafulvalenes. <i>Chemistry Letters</i> , 1990, 19, 1279-1282.	0.7	17

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19	The central bond $^{13}\text{C}=\text{C}$ isotope effect for superconductivity in high- $T_c$ $\beta\text{-}(\text{ET})_2\text{I}_3$ and its implications regarding the superconducting pairing mechanism. <i>Journal of the American Chemical Society</i> , 1992, 114, 10069-10071.	6.6	17
20	New Organic Superconductors in the System $(\text{ET})_2\text{M}(\text{CF}_3)_4(\text{Solvent})$ ( $\text{M} = \text{Cu, Ag, Au}$ ): Dramatic Effects of Organometallic Anion and Solvent Replacement. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 285, 43-50.	0.3	17
21	Crystal structure and electrical properties of $(\text{BEDT-TTF})_2\text{Cp}(\text{CN})_5\hat{\text{A}}(\text{solvent})_x$ . <i>Synthetic Metals</i> , 1989, 33, 1-9.	2.1	16
22	A facile route to aromatic ring-annelated bis(ethylenedithio)tetrathiafulvalene derivatives. <i>Tetrahedron Letters</i> , 1996, 37, 8085-8088.	0.7	16
23	Structural and Electronic Properties of TXF-TCNQ ( $\text{X} = \text{S, Se, Te}$ ). <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990, 181, 43-58.	0.3	14
24	Isotope effect in BEDT-TTF based organic superconductors. <i>Synthetic Metals</i> , 1997, 85, 1617-1622.	2.1	14
25	In-Plane ESR Microwave Conductivity Measurements and Electronic Band Structure Studies of the Organic Superconductor $\hat{\text{I}}^2\hat{\text{A}}^3\hat{\text{A}}^{\ominus}(\text{BEDT-TTF})_2\text{SF}_5\text{CH}_2\text{CF}_2\text{SO}_3$ . <i>Journal of Physical Chemistry B</i> , 1999, 103, 1.2 5493-5499.		14
26	Raman Characterization of the $(\text{BEDT-TTF})_2(\text{ClO}_4)_2$ Salt. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 284, 211-221.	0.3	12
27	Alternative synthesis of $(Z),(Z)$ -4,5,4,5-bis(1,4-dioxanedyl-2,3-dithio)tetrathiafulvalene (cis,cis-BDDT-TTF), and the preparation, EPR properties and structure of the radical cation salt (cis,cis-BDDT-TTF) $_2\text{I}_3$ . <i>Journal of Materials Chemistry</i> , 1995, 5, 1647-1652.	6.7	10
28	Charge-transfer salts derived from MET: Synthesis, structure and properties of $(\text{MET})\text{ClO}_4$ , $(\text{MET})\text{PF}_6$ and $(\text{MET})_3(\text{ReO}_4)_2$ . <i>Synthetic Metals</i> , 1988, 27, A209-A217.	2.1	8
29	Synthesis, Structure, Raman, and ESR Characterization of a New Organic Charge Transfer Salt, $(\text{BEDT-TTF})_2[\text{N}(\text{SO}_2\text{CF}_3)_2]$ . <i>Molecular Crystals and Liquid Crystals</i> , 1996, 284, 427-436.	0.3	7
30	Chemical modification of the superconducting $\hat{\text{I}}^2\hat{\text{A}}^3\hat{\text{A}}^{\ominus}(\text{ET})_2\text{SF}_5\text{CH}_2\text{CF}_2\text{SO}_3$ structure through use of $\text{CF}_3\text{CRR}\hat{\text{A}}^{\ominus}\text{SO}_3\hat{\text{A}}^{\ominus}$ ANIONS. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 380, 129-133.	0.4	7
31	Polymorphism in $\hat{\text{I}}^2(\text{bedt-ttf})_2\text{m}(\text{cf}_3)_4(\text{solvent})$ superconductors. <i>Synthetic Metals</i> , 1997, 85, 1465-1466.	2.1	6
32	Esr studies of two new organic superconductors: $\hat{\text{I}}^2\hat{\text{A}}^3\hat{\text{A}}^{\ominus}(\text{BEDT-TTF})_2\text{SF}_5\text{CH}_2\text{CF}_2\text{SO}_3$ and $\hat{\text{I}}^2\hat{\text{A}}^3\hat{\text{A}}^{\ominus}(\text{BEDT-TTF})_2\text{Cu}(\text{CF}_3)_4(\text{DBCE})$ . <i>Synthetic Metals</i> , 1997, 85, 1533-1534.	2.1	5
33	Characterization of the electrocrystallization products of the mixed-donor system $\text{ET}:\text{MET} (1:1) / \text{I}_3 / \text{TCE}$ : How to get crystals with the ordered $\hat{\text{A}}\hat{\text{Y}}\hat{\text{A}}^{\ominus}(\text{ET})_2\text{I}_3$ structure and a $T_c$ of 4.6 K without applied pressure. <i>Synthetic Metals</i> , 1988, 27, A219-A222.	2.1	4
34	Isotope Effect Study of $\hat{\text{I}}^2(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$ : Labeling in the Anion. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 284, 419-425.	0.3	4
35	Novel sulfonate containing ET based synmetals. <i>Synthetic Metals</i> , 1999, 102, 1666-1669.	2.1	4
36	Convenient synthesis of bis(benzo)-fused BEDT-TTF and higher homologues $\hat{\text{A}}^{\ominus}$ new electron donor molecules for organic charge transfer salts and $\hat{\text{A}}^{\ominus}$ molecular rulers $\hat{\text{A}}^{\ominus}$ . <i>Synthetic Metals</i> , 1997, 86, 1805-1806.	2.1	3

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37	New Ambient Pressure Organic Superconductors: $\hat{1}^{\pm}$ -(BEDT-TTF) <sub>2</sub> (NH <sub>4</sub> )Hg(SCN) <sub>4</sub> , $\hat{1}^m$ -(BEDO-TTF) <sub>3</sub> Cu <sub>2</sub> (NCS) <sub>3</sub> , and $\hat{1}^{\circ}$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br. , 1990, , 51-66.		3
38	Ubiquitous Superconductivity Near 4K in Salts of the BEDT-TTF/I System: Is There a Common Source?. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 181, 91-104.	0.3	2
39	Recent Progress in the Development of Structure-Property Correlations for $\hat{1}^{\circ}$ -Phase Organic Superconductors. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 181, 59-64.	0.3	2
40	Structure-Property Relationships for $\hat{1}^2$ - and $\hat{1}^{\circ}$ -Phase BEDT-TTF Salts and their use in the Synthesis of $\hat{1}^{\circ}$ -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br: A Salt Having the Highest-TC (Inductive Onset = 11.6 K, Resistive Onset = 12.5) Tj ETQq0 0 0 rgBT /Overlo		
41	Synthesis, Characterization, and Physical Properties of Two New Magnetic Organic Metals, [BEDT-TTF] <sub>4</sub> [C(CN) <sub>2</sub> CONH <sub>2</sub> ] <sub>2</sub> CuX <sub>2</sub> (X = Cl and) Tj ETQq1 1 0.784314 rgBT /Overlo		
42	The search for new superconductors at argonne national laboratory. Molecular Crystals and Liquid Crystals, 2002, 380, 29-35.	0.4	0
43	Structure-Property Relationships as an Aid in the Rational Design of $\hat{1}^2$ -(ET) <sub>2</sub> X Organic Superconductors. NATO ASI Series Series B: Physics, 1990, , 91-95.	0.2	0
44	Structure-Property Relationships in Radical-Cation (Electron-Donor Molecule) and Anion-Based (Including Fullerides) Organic Superconductors and their Use in the Design of New Materials. , 1994, , 539-551.		0