

Palaniappan Srinivasan

List of Publications by Year in descending order

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104
papers

2,853
citations

196777

29
h-index

232693

48
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105
all docs

105
docs citations

105
times ranked

3166
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite electrode material of $\text{MoO}_3/\text{MCSiO}_2/\text{PANI}$: Aqueous supercapacitor cell with high energy density, 1 V and 250,000 cycles. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2465-2475.	1.6	13
2	Enhancing the Electrochemical Performance of Polyaniline Using Fly Ash of Coal Waste for Supercapacitor Application. <i>ChemistrySelect</i> , 2021, 6, 2576-2589.	0.7	16
3	Sulfonated rGO from waste dry cell graphite rod and its hybrid with PANI as electrode for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2235-2247.	1.2	6
4	Used carbon water filter as a source for high performance microporous activated carbon electrode for aqueous supercapacitor. <i>Journal of Energy Storage</i> , 2021, 44, 103399.	3.9	16
5	Designing quinone-dopamine-based conjugates as six electron system for high-performance hybrid electrode. <i>Electrochimica Acta</i> , 2020, 357, 136835.	2.6	16
6	Improving the Performance of PANI/TiO ₂ Supercapacitor Active Electrode Material via Emulsion Polymerization of Aniline with MWCNT. <i>ChemistrySelect</i> , 2020, 5, 10098-10105.	0.7	4
7	Formation of PANI-PVA salt via H-bonding between PVA and PANI: Aqueous coating for electrostatic discharge, sensor and corrosion applications. <i>Sensors International</i> , 2020, 1, 100006.	4.9	11
8	Synthesis of novel fluorescent molecule and its polymeric form with aniline as fluorescent and supercapacitor electrode materials. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1532-1543.	1.6	4
9	Hybrid material of polyaniline incorporated industrial waste of fly ash to enhance the electrode performance of polyaniline in supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3231-3242.	1.2	4
10	Synthesis of homo- and hetero-armed hydrophilic glycopolymers: To promote aniline to polyaniline-glycopolymers for fluorescence, electro active material, and electrostatic discharge applications. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48043.	1.3	5
11	Polyaniline nanofibers and porous Ni(OH) ₂ sheets coated carbon fabric for high performance super capacitor. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48042.	1.3	26
12	Synthesis of PEDOT:PSS using benzoyl peroxide as an alternative oxidizing agent for ESD coating and electro-active material in supercapacitor. <i>Materials Science for Energy Technologies</i> , 2019, 2, 208-215.	1.0	4
13	High-performance supercapacitor coin cell: polyaniline and nitrogen, sulfur-doped activated carbon electrodes in aqueous electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 295-306.	1.2	35
14	Polyaniline salt catalyzed synthesis of hyperbranched polyester and its use as dopant in polyaniline salt for coating, fluorescence, and supercapacitor electrode. <i>Ionics</i> , 2019, 25, 191-202.	1.2	9
15	Incorporation of graphene-Mn ₃ O ₄ core into polyaniline shell: supercapacitor electrode material. <i>Ionics</i> , 2018, 24, 1467-1474.	1.2	26
16	One-step synthesis of PEDOT:PSS-TiO ₂ by peroxotitanium acid: a highly stable electrode for a supercapacitor. <i>Ionics</i> , 2018, 24, 1475-1485.	1.2	22
17	Design and synthesis of ternary composite of polyaniline-sulfonated graphene oxide-TiO ₂ nanorods: a highly stable electrode material for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 129-139.	1.2	31
18	Methyl triphenylphosphonium permanganate as a novel oxidant for aniline to polyaniline-manganese(II). <i>Tj ETQq0 0 0 rgBT /Overlock 10</i> 2018, 22, 407-415.	1.2	27

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19	Infrared Spectra: Useful Technique to Identify the Conductivity Level of Emeraldine form of Polyaniline and Indication of Conductivity Measurement either Two or Four Probe Technique. <i>Material Science Research India</i> , 2018, 15, 209-217.	0.9	21
20	Hybrid Material of PANI with TiO ₂ •SnO ₂ : Pseudocapacitor Electrode for Higher Performance Supercapacitors. <i>ChemistrySelect</i> , 2017, 2, 65-73.	0.7	36
21	Preparation and performance of polyaniline•multiwall carbon nanotubes•titanium dioxide ternary composite electrode material for supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 49, 82-87.	2.9	49
22	Use of oil in the polymerization of aniline to polyaniline salt containing dual dopants, sulfuric acid, and castor oil: material for high-performance supercapacitor. <i>Ionics</i> , 2017, 23, 1277-1284.	1.2	9
23	One-step preparation of sulfonated carbon and subsequent preparation of hybrid material with polyaniline salt: a promising supercapacitor electrode material. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1313-1322.	1.2	17
24	Improving the photocatalytic activity of polyaniline and a porphyrin <i>via</i> oxidation to obtain a salt and a charge-transfer complex. <i>New Journal of Chemistry</i> , 2017, 41, 14595-14601.	1.4	21
25	Polyaniline salt containing dual dopants, pyrelenediimide tetracarboxylic acid, and sulfuric acid: Fluorescence and supercapacitor. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45456.	1.3	4
26	Polyaniline•nickel oxide nanocomposites for supercapacitor. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 1039-1047.	1.5	66
27	Emulsion polymerization method for polyaniline-multiwalled carbon nanotube nanocomposites as supercapacitor materials. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3447-3457.	1.2	38
28	Improving the electrochemical performance by sulfonation of polyaniline-graphene-silica composite for high performance supercapacitor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 835-840.	1.8	20
29	Improved electrochemical performances of polyaniline by graphitized mesoporus carbon: Hybrid electrode for supercapacitor. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	6
30	Role of dual dopants in highly ordered crystalline polyaniline nanospheres: Electrode materials in supercapacitors. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	15
31	Ring-opening polymerization of caprolactone using novel polyaniline salt catalyst. <i>Polymer Engineering and Science</i> , 2015, 55, 2245-2249.	1.5	4
32	Organic solvent soluble methyltriphenylphosphonium peroxodisulfate: a novel oxidant for the synthesis of polyaniline and the thus prepared polyaniline in high performance supercapacitors. <i>New Journal of Chemistry</i> , 2015, 39, 5382-5388.	1.4	28
33	One•step oxidation of aniline by peroxotitanium acid to polyaniline•titanium dioxide: A highly stable electrode for a supercapacitor. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	19
34	Effect of reduced graphene oxide•silica composite in polyaniline: electrode material for high-performance supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3381-3388.	1.2	51
35	Simultaneous Oxidation and Doping of Aniline to Polyaniline by Oxidative Template: Electrochemical Performance in Supercapacitor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 939-945.	1.8	15
36	Synthesis of highly crystalline polyaniline with the use of (Cyclohexylamino)-1-propanesulfonic acid for supercapacitor. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 51-56.	1.5	30

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37	Aqueous, interfacial, and electrochemical polymerization pathways of aniline with thiophene: Nano size materials for supercapacitor. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	12
38	Incorporation of polyaniline nanofibres on graphene oxide by interfacial polymerization pathway for supercapacitor. <i>International Nano Letters</i> , 2015, 5, 231-240.	2.3	42
39	A novel process of alcohol promoted polymerization of aniline to form a nanofibrous, fluorescent and highly crystalline polyaniline salt. <i>New Journal of Chemistry</i> , 2015, 39, 8545-8551.	1.4	13
40	Emeraldine Base Form of Polyaniline Nanofibers as New, Economical, Green, and Efficient Catalyst for Synthesis of <i>Z</i> -Aldoximes. <i>Journal of Catalysis</i> , 2014, 2014, 1-6.	0.5	4
41	Nanosphere of Semicrystalline Polyaniline Powder: An Effective, Versatile, and Reusable Catalyst for Hantzsch Reaction. <i>Journal of Catalysis</i> , 2014, 2014, 1-6.	0.5	3
42	Benzoyl Peroxide Oxidation Route to the Synthesis of Solvent Soluble Polycarbazole. <i>International Scholarly Research Notices</i> , 2014, 2014, 1-8.	0.9	6
43	Polyaniline salts as polymer-based solid acid catalyst for low molecular weight poly(lactic acid). <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	4
44	Polyaniline coated glass/SS sheet: Novel, convenient, efficient, reusable and green catalyst. <i>Catalysis Communications</i> , 2014, 43, 93-96.	1.6	12
45	Design and synthesis of heteroatoms doped carbon/polyaniline hybrid material for high performance electrode in supercapacitor application. <i>Electrochimica Acta</i> , 2014, 146, 242-248.	2.6	113
46	Efficient bromination of polyaniline base to poly(2-bromoaniline)-bromide salt and its application as a recyclable catalyst for the synthesis of 2-methyl-4-anilino-1,2,3,4-tetrahydroquinolines. <i>Catalysis Communications</i> , 2014, 57, 94-98.	1.6	3
47	Use of surfactant in aniline polymerization with TiO ₂ to PANI-TiO ₂ for supercapacitor performance. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1995-2003.	1.2	39
48	Use of iodine doped polyaniline salt in the stereoselective synthesis of 2-methyl-4-substituted-1,2,3,4-tetrahydroquinoline derivatives. <i>Catalysis Communications</i> , 2013, 30, 56-60.	1.6	5
49	Polyaniline binder for functionalized acetylene black: A hybrid material for supercapacitor. <i>Synthetic Metals</i> , 2013, 180, 43-48.	2.1	15
50	Nano fibre polyaniline containing long chain and small molecule dopants and carbon composites for supercapacitor. <i>Electrochimica Acta</i> , 2013, 95, 251-259.	2.6	50
51	Preparation and characterization of polyaniline-1-hydroxyethane 1,1-diphosphonic acid salt and its application as a catalyst for the synthesis of <i>N</i> -benzylidene-2-phenyl imidazo[1,2-a]pyridines. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2995-3000.	1.3	10
52	PANI-HBF ₄ : A Reusable Polymer-Based Solid Acid Catalyst for Three-Component, One-Pot Synthesis of 3-Substituted Amino Methyl Indoles Under Solvent-Free Conditions. <i>Synthetic Communications</i> , 2012, 42, 1593-1603.	1.1	12
53	One-pot direct synthesis of fluorescent polyaniline-porphyrin microspheres from porphyrin. <i>Journal of Polymer Science Part A</i> , 2012, 50, 884-889.	2.5	12
54	Controllable stereoselective synthesis of cis or trans pyrano and furano tetrahydroquinolines: Polyaniline-p-toluenesulfonate salt catalyzed one-pot aza-Diels-Alder reactions. <i>Journal of Molecular Catalysis A</i> , 2012, 352, 70-74.	4.8	20

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55	Benzoyl Peroxide Oxidation Route to Nano Form Polyaniline Salt Containing Dual Dopants for Pseudocapacitor. Journal of the Electrochemical Society, 2011, 159, A6-A13.	1.3	91
56	Preparation of processible polyaniline-formate salt via emulsifier free inverted emulsion polymerization and its antistatic applications. Synthetic Metals, 2011, 161, 1029-1033.	2.1	8
57	High-temperature oxidation of aniline to highly ordered polyaniline-sulfate salt with a nanofiber morphology and its use as electrode materials in symmetric supercapacitors. Journal of Applied Polymer Science, 2011, 120, 780-788.	1.3	23
58	Inverted emulsion polymerization route to polyaniline-3D nanofiber network using sulfonated-p-cresol as novel dopant. Journal of Applied Polymer Science, 2011, 120, 2421-2427.	1.3	1
59	A Novel Polyaniline-Silver Nitrate-Toluenesulfonic Acid Salt as Recyclable Catalyst in the Stereoselective Synthesis of β -Amino Ketones: α -One-Pot-Synthesis in Water Medium. Advanced Synthesis and Catalysis, 2010, 352, 2507-2514.	2.1	29
60	Synthesis of copolymer of aniline and pyrrole by inverted emulsion polymerization method for supercapacitor. Journal of Applied Polymer Science, 2010, 115, 1695-1701.	1.3	34
61	Polyaniline-maleic acid-dodecylhydrogensulfate salt as sensor material for toxic gases. Journal of Applied Polymer Science, 2010, 118, 518-524.	1.3	11
62	Didecyl ester of 4-sulfophthalic acid as a plast dopant and emulsifier in the chemical polymerization of aniline into polyaniline salt. Journal of Applied Polymer Science, 2010, 118, 2704-2711.	1.3	3
63	Efficient synthesis of 1,4-substituted-1,4-dibenzoxanthenes using silica supported sodium hydrogen sulfate or amberlyst-15 catalyst. Journal of Heterocyclic Chemistry, 2009, 46, 997-999.	1.4	8
64	Emulsifying properties of gum kondagogu (<i>Cochlospermum gossypium</i>), a natural biopolymer. Journal of the Science of Food and Agriculture, 2009, 89, 1271-1276.	1.7	29
65	Novel Combination of Sodium Borohydride and Reusable Polyaniline Salt Catalyst for Rapid and Efficient Reductive Amination of Carbonyl Compounds. Catalysis Letters, 2009, 132, 480-486.	1.4	11
66	Green Approach for the Synthesis of Quinoxaline Derivatives in Water Medium Using Reusable Polyaniline-sulfate Salt Catalyst and Sodium Laurylsulfate. Catalysis Letters, 2008, 121, 291-296.	1.4	29
67	One-step preparation of solution processible conducting polyaniline by inverted emulsion polymerization using didecyl ester of 4-sulfophthalic acid as multifunctional dopant. Journal of Polymer Science Part A, 2008, 46, 1051-1057.	2.5	23
68	Novel chemically synthesized polyaniline electrodes containing a fluoroboric acid dopant for supercapacitors. Journal of Applied Polymer Science, 2008, 107, 1887-1892.	1.3	50
69	Benzoyl peroxide as a novel oxidizing agent in a polyaniline dispersion: Synthesis and characterization of a pure polyaniline-poly(vinyl pyrrolidone) composite. Journal of Applied Polymer Science, 2008, 108, 825-832.	1.3	16
70	Polyaniline materials by emulsion polymerization pathway. Progress in Polymer Science, 2008, 33, 732-758.	11.8	186
71	Synthesis of nanoporous conducting polyaniline using ternary surfactant. Materials Letters, 2008, 62, 882-885.	1.3	36
72	Use of Pyridinium Chlorochromate and Reusable Polyaniline Salt Catalyst Combination for the Oxidation of Indoles. Synlett, 2008, 2008, 2023-2027.	1.0	9

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73	Conjugated Polymers as Heterogeneous Catalyst in Organic Synthesis. <i>Current Organic Chemistry</i> , 2008, 12, 98-117.	0.9	23
74	Conducting blends obtained from maleic acid/dodecylhydrogensulfate-doped polyaniline and polyvinyl chloride by solution processing. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1113-1119.	1.3	4
75	Synthesis of tri(hydroxyphenyl)methane using polyaniline-p-toluenesulfonic acid salt. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2760-2763.	1.3	2
76	Efficient, convenient and reusable polyaniline-sulfate salt catalyst for the synthesis of quinoxaline derivatives. <i>Journal of Molecular Catalysis A</i> , 2007, 265, 227-230.	4.8	119
77	Solution processible and conductive polyaniline via protonation with 4,4-bis(4-hydroxy) Tj ETQq1 1 0.784314 rgBT JOverlock 10 Tf 50	1.3	8
78	Thermal stability and structure of electroactive polyaniline- fluoroboric acid -dodecylhydrogensulfate salt. <i>Polymer Degradation and Stability</i> , 2006, 91, 2415-2422.	2.7	25
79	Clean synthesis of 1,8-dioxo-dodecahydroxanthene derivatives catalyzed by polyaniline-p-toluenesulfonate salt in aqueous media. <i>Journal of Molecular Catalysis A</i> , 2006, 248, 121-125.	4.8	76
80	A novel polyaniline- maleic acid -dodecylhydrogensulfate salt: Soluble polyaniline powder. <i>Reactive and Functional Polymers</i> , 2006, 66, 1741-1748.	2.0	33
81	Polyaniline salts and complexes: Efficient and reusable catalyst for the one-pot synthesis of 5-(methoxycarbonyl)-6-methyl-4-phenyl-3,4-dihydropyrimidin-2(1h)-one. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1741-1745.	1.3	15
82	Synthesis of Polypyrrole Using Benzoyl Peroxide as a Novel Oxidizing Agent. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 342-348.	1.1	63
83	A novel polyaniline- fluoroboric acid -dodecylhydrogensulfate salt: versatile reusable polymer based solid acid catalyst for organic transformations. <i>Journal of Molecular Catalysis A</i> , 2005, 233, 9-15.	4.8	46
84	Synthesis of polyaniline- bismoclite composite and its function as recoverable and reusable catalyst. <i>Journal of Molecular Catalysis A</i> , 2005, 229, 221-226.	4.8	9
85	Polyaniline-dodecylhydrogensulfate-acid salt: synthesis and characterization. <i>Materials Chemistry and Physics</i> , 2005, 92, 82-88.	2.0	20
86	Polyaniline-supported acid catalyst: Esterification of cinnamic acid with alcohols. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1584-1590.	1.3	7
87	Facile synthesis of bis(indolyl)methanes using polyindole salt as reusable catalyst. <i>Journal of Molecular Catalysis A</i> , 2005, 242, 168-172.	4.8	32
88	The catalytic role of polyaniline salt in coumarins synthesis. <i>Polymers for Advanced Technologies</i> , 2005, 16, 42-47.	1.6	4
89	Polyaniline doped by a new class of dopants, benzoic acid and substituted benzoic acid: synthesis and characterization. <i>Polymers for Advanced Technologies</i> , 2005, 16, 420-424.	1.6	21
90	One-Pot Synthesis of Dihydropyrimidinones Using Polyaniline-Bismoclite Complex. A Facile and Reusable Catalyst for the Biginelli Reaction. <i>Synlett</i> , 2004, 2004, 1285-1287.	1.0	10

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91	Polyaniline Salts and Complexes as Catalyst in Bisindole Synthesis. <i>Catalysis Letters</i> , 2004, 97, 77-81.	1.4	31
92	Synthesis of 7-hydroxy-4-methyl coumarin using polyaniline supported acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2004, 209, 117-124.	4.8	49
93	Mannich-type reaction in solvent free condition using reusable polyaniline catalyst. <i>Journal of Molecular Catalysis A</i> , 2004, 218, 47-53.	4.8	56
94	Benzoyl peroxide oxidation route to polyaniline salt and its use as catalyst in the esterification reaction. <i>Journal of Molecular Catalysis A</i> , 2003, 201, 289-296.	4.8	21
95	Pyridinium chlorochromate oxidation route to polyaniline. <i>Polymers for Advanced Technologies</i> , 2003, 14, 122-128.	1.6	0
96	Synthesis and thermal degradation kinetics of cellulose esters. <i>Polymers for Advanced Technologies</i> , 2003, 14, 477-485.	1.6	9
97	Polyaniline-Supported Sulfuric Acid Salt as a Powerful Catalyst for the Protection and Deprotection of Carbonyl Compounds. <i>Synlett</i> , 2003, 2003, 1793-1796.	1.0	27
98	Emulsion polymerization pathway for preparation of organically soluble polyaniline sulfate. <i>New Journal of Chemistry</i> , 2002, 26, 1490-1494.	1.4	44
99	Esterification of carboxylic acids with alcohols catalyzed by polyaniline salts. <i>Green Chemistry</i> , 2002, 4, 53-55.	4.6	46
100	Benzoyl peroxide oxidation route to polyaniline salt and its use as catalyst in tetrahydropyranylation of decanol. <i>New Journal of Chemistry</i> , 2002, 26, 1671-1674.	1.4	7
101	Conducting polyaniline blends and composites. <i>Progress in Polymer Science</i> , 1998, 23, 993-1018.	11.8	318
102	Kinetics of formation of charge transfer complexes of poly(vinyl pyridines) with iodine, 7,7,8,8-tetracyanoquinodimethane and 2,3-dichloro-5,6-dicyano-1,4-benzoquinone by electronic spectroscopic studies. <i>Polymers for Advanced Technologies</i> , 1994, 5, 184-192.	1.6	0
103	Electron paramagnetic resonance and conductivity studies on poly(m-toluidine) salts and their bases. <i>Synthetic Metals</i> , 1994, 66, 129-134.	2.1	18
104	Conducting poly(2-methylaniline) salts and their bases: temperature-dependent EPR studies. <i>Synthetic Metals</i> , 1994, 63, 43-46.	2.1	14