

Satyanarayana Katakam

List of Publications by Year
in descending order

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136
papers

7,977
citations

117625

34
h-index

49909

87
g-index

137
all docs

137
docs citations

137
times ranked

8894
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable composites based on lignocellulosic fibers—An overview. <i>Progress in Polymer Science</i> , 2009, 34, 982-1021.	24.7	1,098
2	Nanocomposites: synthesis, structure, properties and new application opportunities. <i>Materials Research</i> , 2009, 12, 1-39.	1.3	1,035
3	Studies on lignocellulosic fibers of Brazil. Part I: Source, production, morphology, properties and applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1694-1709.	7.6	483
4	Millimeter-Wave Communications: Physical Channel Models, Design Considerations, Antenna Constructions, and Link-Budget. <i>IEEE Communications Surveys and Tutorials</i> , 2018, 20, 870-913.	39.4	456
5	Review Processing, properties and applications of reactive silica from rice husk—an overview. <i>Journal of Materials Science</i> , 2003, 38, 3159-3168.	3.7	364
6	Layered hydroxide salts: Synthesis, properties and potential applications. <i>Solid State Ionics</i> , 2007, 178, 1143-1162.	2.7	316
7	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil. <i>Industrial Crops and Products</i> , 2009, 30, 407-415.	5.2	296
8	Fabrication and characterisation of Al—Si—0.35Mg/fly ash metal matrix composites processed by different stir casting routes. <i>Composites Science and Technology</i> , 2007, 67, 3369-3377.	7.8	259
9	A review on microalgae, a versatile source for sustainable energy and materials. <i>International Journal of Energy Research</i> , 2011, 35, 291-311.	4.5	217
10	Effect of SiC and rotation of electrode on electric discharge machining of Al—SiC composite. <i>Journal of Materials Processing Technology</i> , 2002, 124, 297-304.	6.3	186
11	Electric discharge machining of Al—SiC metal matrix composites using rotary tube electrode. <i>Journal of Materials Processing Technology</i> , 2004, 153-154, 978-985.	6.3	167
12	Studies on lignocellulosic fibers of Brazil. Part II: Morphology and properties of Brazilian coconut fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1710-1721.	7.6	164
13	Bio-composites of cassava starch-green coconut fiber: Part II—Structure and properties. <i>Carbohydrate Polymers</i> , 2014, 102, 576-583.	10.2	152
14	Studies on lignocellulosic fibers of Brazil: Part III — Morphology and properties of Brazilian curauá fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2227-2236.	7.6	144
15	Studies of the processing and characterization of corn starch and its composites with banana and sugarcane fibers from Brazil. <i>Carbohydrate Polymers</i> , 2010, 80, 130-138.	10.2	138
16	Risk perception analysis of BOT road project participants in India. <i>Construction Management and Economics</i> , 2003, 21, 393-407.	3.0	127
17	Modelling and assessment of critical risks in BOT road projects. <i>Construction Management and Economics</i> , 2006, 24, 407-424.	3.0	126
18	Study of the properties of biocomposites. Part I. Cassava starch-green coir fibers from Brazil. <i>Carbohydrate Polymers</i> , 2011, 86, 1712-1722.	10.2	120

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19	Functionalization of single layers and nanofibers: a new strategy to produce polymer nanocomposites with optimized properties. <i>Journal of Colloid and Interface Science</i> , 2005, 285, 532-543.	9.4	109
20	Hybrid Beamforming Design for Full-Duplex Millimeter Wave Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 1394-1404.	6.3	97
21	Studies on the characterization of piassava fibers and their epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 353-362.	7.6	77
22	Molecular dynamics simulations of $\hat{1}\pm$ - to $\hat{1}^2$ -poly(vinylidene fluoride) phase change by stretching and poling. <i>Polymer</i> , 2012, 53, 2927-2934.	3.8	76
23	Environmental benefits of construction and demolition debris recycling: Evidence from an Indian case study using life cycle assessment. <i>Journal of Cleaner Production</i> , 2020, 255, 120258.	9.3	73
24	Studies on the combined effect of injection temperature and fiber content on the properties of polypropylene-glass fiber composites. <i>Composites Science and Technology</i> , 2005, 65, 873-881.	7.8	68
25	Traffic revenue risk management through Annuity Model of PPP road projects in India. <i>International Journal of Project Management</i> , 2006, 24, 605-613.	5.6	67
26	Estimation of construction and demolition waste using waste generation rates in Chennai, India. <i>Waste Management and Research</i> , 2017, 35, 610-617.	3.9	61
27	Simulation of $\hat{1}\pm$ - and $\hat{1}^2$ -PVDF melting mechanisms. <i>Polymer</i> , 2012, 53, 2919-2926.	3.8	57
28	Novel method for the preparation of lignin-rich nanoparticles from lignocellulosic fibers. <i>Industrial Crops and Products</i> , 2017, 103, 152-160.	5.2	57
29	The effect of steam explosion on the production of sugarcane bagasse/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 364-370.	7.6	55
30	Assessment of Nano Cellulose from Peach Palm Residue as Potential Food Additive: Part II: Preliminary Studies. <i>Journal of Food Science and Technology</i> , 2015, 52, 5641-5650.	2.8	47
31	Deep Learning Aided Fingerprint-Based Beam Alignment for mmWave Vehicular Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 10858-10871.	6.3	46
32	Studies of the effect of molding pressure and incorporation of sugarcane bagasse fibers on the structure and properties of poly (hydroxy butyrate). <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 573-582.	7.6	41
33	Separation and inductively coupled plasma optical emission spectrometric (ICP-OES) determination of trace impurities in nuclear grade uranium oxide. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 285, 659-665.	1.5	41
34	Computer-aided polymer design using group contribution plus property models. <i>Computers and Chemical Engineering</i> , 2009, 33, 1004-1013.	3.8	37
35	Title is missing!. <i>Journal of Materials Science Letters</i> , 2002, 21, 1245-1247.	0.5	36
36	Sponge Gourd (<i>Luffa Cylindrica</i>) Reinforced Polyester Composites: Preparation and Properties. <i>Defence Science Journal</i> , 2014, 64, 273-280.	0.8	36

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37	A Comparative Analysis of Public- Private Partnership (PPP) Coordination Agencies in India. Public Works Management Policy, 2011, 16, 341-372.	1.2	35
38	Selection of high strength natural fibers. Revista Materia, 2010, 15, 488-505.	0.2	34
39	Denoising EOG Signal using Stationary Wavelet Transform. Measurement Science Review, 2012, 12, .	1.0	33
40	Preparation and characterization of polypropylene/heartâ€ofâ€peach palm sheath composite. Journal of Applied Polymer Science, 2013, 127, 1285-1294.	2.6	31
41	Processing and properties of continuous and aligned curaua fibers incorporated polyester composites. Journal of Materials Research and Technology, 2013, 2, 2-9.	5.8	31
42	Microfibrillated nanocellulose from balsa tree as potential reinforcement in the preparation of â€greenâ€™ composites with castor seed cake. Journal of Cleaner Production, 2017, 149, 1157-1163.	9.3	28
43	Comparative Study of the Characteristics of Green and Brown Coconut Fibers for the Development of Green Composites. BioResources, 2017, 13, .	1.0	28
44	Dual-Function Hybrid Beamforming and Transmit Diversity Aided Millimeter Wave Architecture. IEEE Transactions on Vehicular Technology, 2018, 67, 2798-2803.	6.3	28
45	Criteria influencing debt financing of Indian PPP road projects: a case study. Journal of Financial Management of Property and Construction, 2009, 14, 34-60.	1.4	27
46	Competencies and urban Public Private Partnership projects in India: A case study analysis. Policy and Society, 2013, 32, 125-142.	5.6	27
47	Effect of mechanical and thermal loading on boron carbide particles reinforced Al-6061 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 632, 147-155.	5.6	25
48	Interrelationships of factors causing delays in the relocation of utilities. Engineering, Construction and Architectural Management, 2016, 23, 349-368.	3.1	25
49	Analysis of the torsion angle distribution of poly(vinylidene fluoride) in the melt. Polymer, 2012, 53, 1109-1114.	3.8	22
50	Effect of treated coir fiber/coconut shell powder and aramid fiber on mechanical properties of vinyl ester. Polymer Composites, 2018, 39, 4542-4550.	4.6	21
51	Characterization of carbon fabric coated with Ni-P and Ni-P-ZrO ₂ -Al ₂ O ₃ by electroless technique. Journal of Materials Science, 2002, 37, 5247-5254.	3.7	20
52	Critical challenges in management of heritage conservation projects in India. Journal of Cultural Heritage Management and Sustainable Development, 2017, 7, 290-307.	0.9	19
53	Fatigue analysis of sundry i.c engine connecting rods. Materials Today: Proceedings, 2018, 5, 4958-4964.	1.8	19
54	Recycled Polyethylene Composites Reinforced with Jute Fabric from Sackcloth: Part I-Preparation and Preliminary Assessment. Journal of Polymers and the Environment, 2012, 20, 245-253.	5.0	18

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55	Multi-User Hybrid Beamforming Relying on Learning-Aided Link-Adaptation for mmWave Systems. IEEE Access, 2019, 7, 23197-23209.	4.2	18
56	Polymer property modeling using grid technology for design of structured products. Fluid Phase Equilibria, 2007, 261, 58-63.	2.5	17
57	Formation of heartwood, chemical composition of extractives and natural durability of plantation-grown teak wood from Mexico. Holzforschung, 2019, 73, 547-557.	1.9	17
58	Computer aided polymer design using multi-scale modelling. Brazilian Journal of Chemical Engineering, 2010, 27, 369-380.	1.3	17
59	Effect of processing parameters on the properties of polypropylene-sawdust composites. Journal of Composite Materials, 2015, 49, 3727-3740.	2.4	16
60	Evaluation of Castor Oil Cake Starch and Recovered Glycerol and Development of "Green" Composites Based on Those with Plant Fibers. Materials, 2016, 9, 76.	2.9	16
61	Effect of the type of fiber (coconut, eucalyptus, or pine) and compatibilizer on the properties of extruded composites of recycled high density polyethylene. Journal of Composite Materials, 2016, 50, 45-56.	2.4	15
62	Millimeter Wave Hybrid Beamforming with DFT-MUB Aided Precoder Codebook Design. , 2017, , .		15
63	Effect of amount of boron carbide on wear loss of Al-6061 matrix composite by Taguchi technique and Response surface analysis. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012071.	0.6	15
64	Multi-User Full Duplex Transceiver Design for mmWave Systems Using Learning-Aided Channel Prediction. IEEE Access, 2019, 7, 66068-66083.	4.2	15
65	Identifying and Addressing Critical Issues in the Indian Construction Industry: Perspectives of Large Building Construction Clients. Journal of Construction in Developing Countries, 2017, 22, 121-144.	0.6	15
66	Spectral Analysis and Mitigation of GPS Multipath Error Using Digital Filtering for Static Applications. IETE Journal of Research, 2013, 59, 156.	2.6	14
67	Utility relocation management in highway projects. Built Environment Project and Asset Management, 2018, 8, 171-182.	1.6	14
68	Analogue Wireless Beamforming Exploiting the Fiber-Nonlinearity of Radio Over Fiber-Based C-RANs. IEEE Transactions on Vehicular Technology, 2019, 68, 2802-2813.	6.3	14
69	The solidification processing of metal-matrix composites: The Rohatgi Symposium. Jom, 2006, 58, 92-94.	1.9	13
70	Desirability rating analysis for debt financing of public-private partnership road projects. Construction Management and Economics, 2009, 27, 823-837.	3.0	13
71	Preparation and characterization of biodegradable composites based on Brazilian cassava starch, corn starch and green coconut fibers. Revista Materia, 2010, 15, 330-337.	0.2	13
72	New and improved method of investigation using thermal tools for characterization of cellulose from eucalypts pulp. Thermochemica Acta, 2016, 638, 44-51.	2.7	13

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73	Analogue Radio Over Fiber Aided MIMO Design for the Learning Assisted Adaptive C-RAN Downlink. IEEE Access, 2019, 7, 21359-21371.	4.2	13
74	Mechanical Properties of Boehmeria nivea Natural Fabric Reinforced Epoxy Matrix Composite Prepared by Vacuum-Assisted Resin Infusion Molding. Polymers, 2020, 12, 1311.	4.5	13
75	Development of electroless composite coatings by using in-situ co-precipitation followed by co-deposition process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 23-31.	2.1	12
76	Performance evaluation of IRI-2007 at equatorial latitudes and its Matlab version for GNSS applications. Advances in Space Research, 2013, 52, 1845-1858.	2.6	12
77	Solid phase separation and ICP-OES/ICP-MS determination of rare earth impurities in nuclear grade uranium oxide. Journal of Radioanalytical and Nuclear Chemistry, 2012, 294, 215-220.	1.5	9
78	Identification of delamination interface in composite laminates using scattering characteristics of lamb wave: numerical and experimental studies. Smart Materials and Structures, 2017, 26, 045017.	3.5	9
79	Investigation of the Stresses Induced in Crank Shaft AISI E4340 Forged Steel. Procedia Engineering, 2017, 173, 1672-1677.	1.2	9
80	Adaptive Transceiver Design for C-RAN in mmWave Communications. IEEE Access, 2018, 6, 16770-16782.	4.2	9
81	Evaluation of surface pre-treatments on the surface characteristics modifications in sponge gourd (<i>Luffa Cylindrica</i>) fibers. Materials Research Express, 2019, 6, 095106.	1.6	9
82	A study on the development and wear characteristics of rheocast Al-5Cu-2Pb alloy and Al-5Cu/Pb-18Sn wire composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 327, 186-202.	5.6	8
83	Evaluation of polypropylene/saw dust composites prepared with maleated polypropylene (mapp) produced by reactive extrusion. Revista Materia, 2010, 15, 309-318.	0.2	8
84	Selective matrix removal and ICP-OES determination of trace uranium, rare earth elements and yttrium in zircon minerals. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 497-505.	1.5	8
85	Effect of domestic compatibilizer on the performance of polypropylene-sawdust composites. Journal of Composite Materials, 2016, 50, 1353-1365.	2.4	8
86	Developing a clients' charter and construction project KPIs to direct and drive industry improvements. Built Environment Project and Asset Management, 2017, 7, 253-270.	1.6	8
87	Soft-Decoding for Multi-Set Space-Time Shift-Keying mmWave Systems: A Deep Learning Approach. IEEE Access, 2020, 8, 49584-49595.	4.2	8
88	Plasma current and position feedback control in ADITYA Tokamak. Fusion Engineering and Design, 2003, 66-68, 809-813.	1.9	7
89	Estimation of Total Electron Content and Instrumental Biases of Low Latitude Global Positioning System Stations Using Kalman Filter. IETE Journal of Research, 2010, 56, 235.	2.6	7
90	A Study on Design and Analysis of Hybrid Vibration Damper with Energy Harvesting and Optimal Damping Effect. Journal of the Institution of Engineers (India): Series C, 2014, 95, 97-102.	1.2	7

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91	Quasi-dynamic and thermal analysis of a diesel engine piston under variable compression. <i>Materials Today: Proceedings</i> , 2018, 5, 5103-5109.	1.8	7
92	Some Studies On Stress Analysis Of A Sundry Variable Compression Ratio Diesel Engine Piston. <i>Materials Today: Proceedings</i> , 2018, 5, 18251-18259.	1.8	7
93	Hybrid beamforming design for dual-polarised millimetre wave MIMO systems. <i>Electronics Letters</i> , 2018, 54, 1257-1258.	1.0	7
94	Novel AZSPWM Algorithms based VCIMD for Reduced CMV Variations. <i>International Journal of Power Electronics and Drive Systems</i> , 2012, 3, .	0.6	7
95	Absenteeism and Turnover of Migrant Construction Workers in Indian Projects – A Survey-Based Study. , 2016, , .		6
96	Preparation and characterization of wood-cement particleboards produced using metakaolin, calcined ceramics and residues of <i>Pinus spp.</i> . <i>Journal of Building Engineering</i> , 2020, 32, 101722.	3.4	6
97	Modeling and assessment of competencies in urban local bodies for implementing PPP projects. <i>Built Environment Project and Asset Management</i> , 2013, 3, 42-57.	1.6	5
98	Response optimization of four stroke variable compression ratio diesel engine cylinder head with stress analysis. <i>Materials Today: Proceedings</i> , 2018, 5, 19497-19506.	1.8	5
99	Obtaining dissolving grade cellulose from the huizache (<i>Acacia farnesiana L. Willd.</i>) plant. <i>BioResources</i> , 2019, 14, 3301-3318.	1.0	5
100	Effect of electron beam irradiation on the mechanical properties of buriti fiber. <i>Revista Materia</i> , 2012, 17, 1135-1143.	0.2	5
101	Charpy impact resistance of alkali treated curaua reinforced polyester composites. <i>Revista Materia</i> , 2010, 15, 131-137.	0.2	4
102	Space vector based hybrid PWM algorithm for vector controlled induction motor drives for reduced current ripple and acoustical noise. , 2010, , .		4
103	Recycled Polyethylene Composites Reinforced with Jute Fabric from Sackcloth: Part II-Impact Strength Evaluation. <i>Journal of Polymers and the Environment</i> , 2011, 19, 957-965.	5.0	4
104	Design and Implementation of Bluetooth-Beacon Based Indoor Positioning System. , 2019, , .		4
105	A New FOC Approach of Induction Motor Drive Using DTC Strategy for the Minimization of CMV. <i>International Journal of Power Electronics and Drive Systems</i> , 2013, 3, .	0.6	4
106	Material cost and escalation clauses in Indian construction contracts. <i>Proceedings of Institution of Civil Engineers: Construction Materials</i> , 2011, 164, 95-108.	1.1	3
107	External agencies for supplementing competencies in Indian urban PPP projects. <i>Built Environment Project and Asset Management</i> , 2013, 3, 58-73.	1.6	3
108	Isolation and Characterization of Cellulose Nanocrystals Created from Recycled Laser Printed Paper. <i>BioResources</i> , 2018, 13, .	1.0	3

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109	Work practices of onsite construction crews and their influence on productivity. Construction Economics and Building, 2018, 18, 18-39.	0.9	3
110	REVIEW OF ETHANOL PRODUCTION BASED ON PAPER SLUDGE: PROCESSES AND PROSPECTS. Environmental Engineering and Management Journal, 2017, 16, 1227-1248.	0.6	3
111	Multi Layer Feed Forward Neural Network Knowledge Base to Future Stock Market Prediction. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 1061-1075.	0.3	3
112	Development of window for first Indian gyrotron. , 2009, , .		2
113	Approval Risks in Transportation Infrastructure Projects in India. , 2012, , .		2
114	Computational Studies of Poly(vinylidene fluoride)â€”Single Wall Carbon Nanotube Systems. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1317-1325.	0.4	2
115	Development of Composites of Highly Filled Phenol Formaldehyde Resin â€” Coconut (<i>Cocos</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1 0.5	0.5	2
116	Effects of Mutual Coupling on Lattice Reduction-Aided Millimeter Wave Hybrid Beamforming. , 2018, , .		2
117	Study on the deposition of stainless steel on polymeric substrates by arc electric thermal spraying. Materials Research Express, 2019, 6, 105314.	1.6	2
118	Characterization of <l>Pinus</l> <l>sp</l> of Needle to Assess Their Possible Industrial Applications. Journal of Biobased Materials and Bioenergy, 2014, 8, 192-201.	0.3	2
119	A Review on Pricing Prediction on Stock Market by Different Techniques in the Field of Data Mining and Genetic Algorithm. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 23-26.	0.2	2
120	Performance Improvement of Multi Level Inverter fed Vector Controlled Induction Motor Drive for Low Speed Operations. International Journal of Power Electronics and Drive Systems, 2014, 4, .	0.6	2
121	Heart Disease Classification Using Discrete Wavelet Transform Coefficients of Isolated Beats. IFMBE Proceedings, 2009, , 60-64.	0.3	2
122	Oral Toxicity Study for Salmonella Killing Lytic Bacteriophage NINP13076 in BALB/c Mice and Its Effect on Probiotic Microbiota. Current Microbiology, 2022, 79, 89.	2.2	2
123	Strategies for development of competencies for implementation of urban public private partnership projects in India. , 2009, , .		1
124	Mitigation of Cellular Phone Interference in ECG During Emergency Patient Transportation. Cardiovascular Engineering and Technology, 2013, 4, 544-552.	1.6	1
125	Assessment of Stakeholdersâ€™ Management Practice in Infrastructure Projectsâ€™An Indian Case Project. , 2016, , .		1
126	Characterization of Aechmea magdalenae Leaf Fiber Yarns. Journal of Biobased Materials and Bioenergy, 2014, 8, 184-191.	0.3	1

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127	Genetic characterization of local goats of Karnataka by microsatellite marker analysis. Indian Journal of Animal Research, 2018, , .	0.1	1
128	An enabling technique analysis in Data Mining for Stock Market trend by Approaching Genetic Algorithm. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 27-33.	0.2	1
129	Studies on the durability of wood-cement particleboards produced with residues of Pinus spp., silica fume, and rice husk ash. BioResources, 2020, 15, 3064-3086.	1.0	1
130	Developments in composites: advanced, infrastructural, natural and nano-composites. Materials Technology, 2007, 22, 43-47.	3.0	0
131	Analyzing the Institutional Framework for Urban Public Private Partnerships in Indian States. , 2009, , .		0
132	Characterization of Indian ionospheric TEC behavior using PDFs and GPS satellite data. , 2013, , .		0
133	MBER Transmit Precoding for the Rank-Deficient MIMO-Aided Internet of Things. , 2018, , .		0
134	Design and Development of NavIC and GPS based Geolocation System for CO2 Monitoring. , 2021, , .		0
135	Aluminum and copper deposition through the process of thermal flame spray on polypropylene-pine wood fiber composite filaments and their applications. Journal of Composite Materials, 0, , 002199832110365.	2.4	0
136	Preparation and characterization of nanocomposites based on linear medium density polyethylene/cellulose nanofibers from Agave tequilana bagasse waste. BioResources, 2019, 14, 9806-9825.	1.0	0