

Rajiv Kumar

List of Publications by Year in descending order

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116
papers

9,682
citations

87888

38
h-index

36028

97
g-index

121
all docs

121
docs citations

121
times ranked

8242
citing authors

#	ARTICLE	IF	CITATIONS
1	A parallel cross-connection recovery scheme for dual link failure in elastic optical networks. <i>Journal of Optical Communications</i> , 2023, 44, 447-455.	4.7	0
2	A constrained framework for context-aware remote E-healthcare (CARE) services. <i>Transactions on Emerging Telecommunications Technologies</i> , 2022, 33, e3649.	3.9	26
3	Alleviation of Delay in Tele-Surgical Operations using Markov Approach based Smith Predictor. <i>International Journal of Business Analytics</i> , 2022, 9, 0-0.	0.4	0
4	On Energy-constrained Quickest Path Problem in Green Communication Using Intuitionistic Trapezoidal Fuzzy Numbers. <i>Recent Advances in Computer Science and Communications</i> , 2021, 14, 192-200.	0.7	8
5	B Smart Technologies in Engineering Applications of Cyber Physical System in Healthcare: Sensing, Imaging, Computing and Networking. <i>Recent Advances in Computer Science and Communications</i> , 2021, 14, 225-226.	0.7	1
6	Randomization-Based Dynamic Programming Offloading Algorithm for Mobile Fog Computing. <i>Security and Communication Networks</i> , 2021, 2021, 1-9.	1.5	2
7	Risk-aware optimized quickest path computing technique for critical routing services. <i>Computers and Electrical Engineering</i> , 2021, 95, 107436.	4.8	6
8	A hybrid framework for multimedia data processing in IoT-healthcare using blockchain technology. <i>Multimedia Tools and Applications</i> , 2020, 79, 9711-9733.	3.9	140
9	A Blockchain Framework for Securing Connected and Autonomous Vehicles. <i>Sensors</i> , 2019, 19, 3165.	3.8	135
10	Risk-energy aware service level agreement assessment for computing quickest path in computer networks. <i>International Journal of Reliability and Safety</i> , 2019, 13, 96.	0.2	44
11	Network modelling and computation of quickest path for service-level agreements using bi-objective optimization. <i>International Journal of Distributed Sensor Networks</i> , 2019, 15, 155014771988111.	2.2	61
12	A Framework for Risk-Energy Aware Service-Level Agreement Provisioning (RESP) for Computing the Quickest Path. <i>Journal of Computer Networks and Communications</i> , 2019, 2019, 1-8.	1.6	8
13	A Secure, Energy- and SLA-Efficient (SESE) E-Healthcare Framework for Quickest Data Transmission Using Cyber-Physical System. <i>Sensors</i> , 2019, 19, 2119.	3.8	62
14	Service level agreement and energy cooperative cyber physical system for quickest healthcare services. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 4077-4089.	1.4	13
15	Computation of the Reliable and Quickest Data Path for Healthcare Services by Using Service-Level Agreements and Energy Constraints. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 9087-9104.	3.0	38
16	Service-Level Agreement-Energy Cooperative Quickest Ambulance Routing for Critical Healthcare Services. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 3831-3848.	3.0	40
17	Risk-energy aware service level agreement assessment for computing quickest path in computer networks. <i>International Journal of Reliability and Safety</i> , 2019, 13, 96.	0.2	25
18	An architecture of smart transportation system using modified RR algorithm and VANET. , 2017, , .		1

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19	An optimal routing scheme for critical healthcare HTH services " an IOT perspective. , 2017, , .		22
20	Performance comparison and detailed study of AODV, DSDV, DSR, TORA and OLSR routing protocols in ad hoc networks. , 2016, , .		57
21	Administration of Î°Bâ€kinase inhibitor PS1145 enhances apoptosis in DMBAâ€induced tumor in male Wistar rats. Cell Biology International, 2015, 39, 1317-1328.	3.0	3
22	A framework for continuity of mission-critical network services. , 2015, , .		4
23	HN Protein of Newcastle Disease Virus Induces Apoptosis Through SAPK/JNK Pathway. Applied Biochemistry and Biotechnology, 2015, 177, 940-956.	2.9	14
24	Enhanced active constrained layer damping (ACLD) treatment using stand-off-layer: robust controllers design, experimental implementation and comparison. JVC/Journal of Vibration and Control, 2013, 19, 439-460.	2.6	7
25	Efficient Active Vibration Control of Smart Structures With Modified Positive Position Feedback Control Using Pattern Search Methods in the Presence of Instrumentation Phase Lead and Lag. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	5
26	Cloning and expression analysis of multiple proteins encoding P gene of Newcastle disease virus. Indian Journal of Experimental Biology, 2013, 51, 116-23.	0.0	0
27	Performance Analysis of Finite Element and Energy Based Analytical Methods for Modeling of PCLD Treated Beams. Journal of Vibration and Acoustics, Transactions of the ASME, 2012, 134, .	1.6	1
28	Active Vibration Control of Beams by Combining Precompressed Layer Damping and ACLD Treatment: Performance Comparison of Various Robust Control Techniques. Journal of Vibration and Acoustics, Transactions of the ASME, 2012, 134, .	1.6	9
29	Ordered organo-inorganic hybrid mesoporous solid acid catalysts (Zrâ€TMSâ€TFA) for Michael addition of indoles with Î±,Î²-unsaturated carbonyl compounds under environmentally benign solvent free conditions. Microporous and Mesoporous Materials, 2012, 164, 232-238.	4.4	8
30	Velogenic Newcastle Disease Virus as an Oncolytic Virotherapeutics: In Vitro Characterization. Applied Biochemistry and Biotechnology, 2012, 167, 2005-2022.	2.9	37
31	New mixed ligand coated platinum nanoparticles for heterogeneous catalytic applications. Catalysis Today, 2012, 198, 77-84.	4.4	15
32	Solvent-free coumarin synthesis via Pechmann reaction using solid catalysts. Microporous and Mesoporous Materials, 2012, 149, 1-9.	4.4	44
33	Effect of Composition on the Catalytic Properties of Mixedâ€Ligandâ€Coated Gold Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 7900-7905.	13.8	52
34	Enhanced ACLD treatment using stand-off-layer: FEM based design and experimental vibration analysis. Applied Acoustics, 2011, 72, 856-872.	3.3	20
35	Immobilization of 1,5,7-triazabicyclo [4.4.0] dec-5-ene over mesoporous materials: An efficient catalyst for Michael-addition reactions under solvent-free condition. Applied Catalysis A: General, 2011, 397, 250-258.	4.3	37
36	Solvent-free Mukaiyama-aldol condensation catalyzed by Ceâ€Alâ€MCM-41 mesoporous materials. Microporous and Mesoporous Materials, 2011, 144, 82-90.	4.4	19

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37	Active Vibration Control of Beams By Combining Precompressed Layer Damping and ACLD Treatment: Theory and Experimental Implementation. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.6	0
38	Heterogenized Ru(II) phenanthroline complex for chemoselective hydrogenation of diketones under biphasic aqueous medium. Journal of Molecular Catalysis A, 2010, 333, 114-120.	4.8	6
39	Ru(II) Phenanthroline Complex As Catalyst for Chemoselective Hydrogenation of Nitro-Aryls in a Green Process. Industrial & Engineering Chemistry Research, 2010, 49, 12180-12184.	3.7	25
40	Highly Chemoselective Catalytic System for Hydrogenation of Diketones to Ketols: An Environmentally Benevolent System. Catalysis Letters, 2008, 120, 257-260.	2.6	10
41	Structure Sensitivity of Nano-structured CdS/SBA-15 Containing Au and Pt Co-catalysts for the Photocatalytic Splitting of Water. Catalysis Letters, 2008, 121, 226-233.	2.6	44
42	Induction of apoptosis in Vero cells by Newcastle disease virus requires viral replication, de-novo protein synthesis and caspase activation. Virus Research, 2008, 133, 285-290.	2.2	42
43	Pole Placement Techniques for Active Vibration Control of Smart Structures: A Feasibility Study. Journal of Vibration and Acoustics, Transactions of the ASME, 2007, 129, 601-615.	1.6	16
44	COMPARTMENT FIRES: CALTREE AND CROSS-VENTILATION. Combustion Science and Technology, 2007, 179, 1549-1567.	2.3	7
45	AN EXPERIMENTAL FIRE IN COMPARTMENT WITH DUAL VENT ON OPPOSITE WALLS. Combustion Science and Technology, 2007, 179, 1527-1547.	2.3	16
46	Ce-Al-MCM-41: an efficient catalyst for Mukaiyama-Michael reaction. Studies in Surface Science and Catalysis, 2007, , 1161-1166.	1.5	6
47	Eco-friendly, Selective Hydroxylation of C-7 Aromatic Compounds Catalyzed by TS-1/H ₂ O ₂ System under Solvent-free Solid-Liquid-Liquid-Type Triphase Conditions. Industrial & Engineering Chemistry Research, 2007, 46, 8657-8664.	3.7	25
48	Eco-friendly synthesis of epichlorohydrin catalyzed by titanium silicate (TS-1) molecular sieve and hydrogen peroxide. Catalysis Communications, 2007, 8, 379-382.	3.3	32
49	Selective Hydrogenation of Acetophenone by Heterogenized Transition Metal Complexes. Studies in Surface Science and Catalysis, 2007, 172, 477-480.	1.5	0
50	Visible light-induced splitting of water using CdS nanocrystallites immobilized over water-repellant polymeric surface. International Journal of Hydrogen Energy, 2007, 32, 2784-2790.	7.1	61
51	NCL-7, A novel all silica analog of polymorph B rich member of BEA family: Synthesis and characterization. Microporous and Mesoporous Materials, 2007, 101, 108-114.	4.4	18
52	Synthesis and characterization of NCL-5, NCL-6 and NCL-7: New zeolites enriched with polymorph B of the BEA family. Microporous and Mesoporous Materials, 2007, 105, 82-88.	4.4	9
53	MIMO adaptive vibration control of smart structures with quickly varying parameters: Neural networks vs classical control approach. Journal of Sound and Vibration, 2007, 307, 639-661.	3.9	30
54	Synergistic role of acid sites in the Ce-enhanced activity of mesoporous Ce-Al-MCM-41 catalysts in alkylation reactions: FTIR and TPD-ammonia studies. Journal of Catalysis, 2007, 245, 338-347.	6.2	119

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55	Experimental Validation of RELIEFâ€™s A Zone Model to Predict Fire Behavior in Enclosures with Wall Linings. Journal of Applied Fire Science, 2007, 17, 311-336.	0.0	2
56	RELIEFâ€™s A Simple Zone Model to Predict Fire Behavior in Enclosures with Wall Linings. Journal of Applied Fire Science, 2007, 17, 295-310.	0.0	1
57	Optimized Near Minimum Time Control of Flexible Structures Using Variable Gain (LQG) Control Strategies. Journal of Vibration and Acoustics, Transactions of the ASME, 2006, 128, 402-407.	1.6	5
58	Adaptive hybrid control of smart structures subjected to multiple disturbances. Smart Materials and Structures, 2006, 15, 1345-1357.	3.5	10
59	Adaptive vibration control of smart structures: a comparative study. Smart Materials and Structures, 2006, 15, 1358-1369.	3.5	18
60	Synthesis, characterization and catalytic application of Rullâ€™s ethylenediamine complexâ€™s mesoporous silica as heterogeneous catalyst system in chemo-selective hydrogenation of Î±,Î²-unsaturated carbonyl compounds. Microporous and Mesoporous Materials, 2005, 87, 33-44.	4.4	22
61	Extracellular Biosynthesis of Bimetallic Au-Ag Alloy Nanoparticles. Small, 2005, 1, 517-520.	10.0	417
62	Multivariable adaptive vibration control of smart structures using iterative (LQG) control strategies. Smart Materials and Structures, 2005, 14, 953-962.	3.5	7
63	Steric control of tritolylphosphines on the nuclearity of Cu(I) complexes: Syntheses and structures of the iodo-bridged [Cu ₄ (Î¼ ₃ -I) ₄ (p-tolyl ₃ P) ₄] cubane and the [Cu ₂ (Î¼ ₂ -I) ₂ (o-tolyl ₃ P) ₂] dimer. Journal of Coordination Chemistry, 2005, 58, 849-855.	2.2	14
64	Efficient heterogeneous catalytic systems for enantioselective hydrogenation of prochiral carbonyl compounds. Journal of Catalysis, 2004, 228, 386-396.	6.2	33
65	Immobilization of biogenic gold nanoparticles in thermally evaporated fatty acid and amine thin films. Journal of Colloid and Interface Science, 2004, 274, 69-75.	9.4	38
66	Identification of tetrahedrally ordered Siâ€™s Al environments in molecular sieves by { ²⁷ Al}â€™s ²⁹ Si REAPDOR NMR. Chemical Physics Letters, 2004, 390, 79-83.	2.6	10
67	Intracellular synthesis of gold nanoparticles by a novel alkalotolerant actinomycete, Rhodococcus species. Nanotechnology, 2003, 14, 824-828.	2.6	618
68	Heteropolyacids Aided Rapid and Convenient Syntheses of Highly Ordered MCM-41 and MCM-48: Exploring the Accelerated Process by ²⁹ Si MAS NMR and Powder X-Ray Diffraction Studies.. ChemInform, 2003, 34, no.	0.0	0
69	Preparation and stabilization of gold nanoparticles formed by in situ reduction of aqueous chloroaurate ions within surface-modified mesoporous silica. Microporous and Mesoporous Materials, 2003, 58, 201-211.	4.4	96
70	Multinuclear (²⁷ Al, ²⁹ Si, ⁴⁷ Ti) solid-state NMR of titanium substituted zeolite USY. Solid State Nuclear Magnetic Resonance, 2003, 24, 184-195.	2.3	40
71	Extracellular biosynthesis of silver nanoparticles using the fungus Fusarium oxysporum. Colloids and Surfaces B: Biointerfaces, 2003, 28, 313-318.	5.0	1,505
72	Extracellular Biosynthesis of Monodisperse Gold Nanoparticles by a Novel Extremophilic Actinomycete, Thermomonospora sp.. Langmuir, 2003, 19, 3550-3553.	3.5	684

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73	Identification of distinct Brønsted acidic sites in zeolite mordenite by proton localization and [27Al]-1H REAPDOR NMR. <i>Chemical Communications</i> , 2003, , 2076-2077.	4.1	11
74	Reaction Modeling and Optimization Using Neural Networks and Genetic Algorithms: A Case Study Involving TS-1-Catalyzed Hydroxylation of Benzene. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2159-2169.	3.7	49
75	²⁹ Si and ²⁷ Al MAS/3Q-MAS NMR Studies of High Silica USY Zeolites. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6115-6120.	2.6	78
76	Characterization and Catalytic Activity of Gold Nanoparticles Synthesized by Autoreduction of Aqueous Chloroaurate Ions with Fumed Silica. <i>Chemistry of Materials</i> , 2002, 14, 1678-1684.	6.7	107
77	Heteropolyacids aided rapid and convenient syntheses of highly ordered MCM-41 and MCM-48: exploring the accelerated process by ²⁹ Si MAS NMR and powder X-ray diffraction studies Electronic supplementary information (ESI) available: powder XRD patterns and instrumentation details. See http://www.rsc.org/suppdata/cc/b2/b206482k/ . <i>Chemical Communications</i> , 2002, , 2404-2405.	4.1	16
78	Extracellular Synthesis of Gold Nanoparticles by the Fungus <i>Fusarium oxysporum</i> . <i>ChemBioChem</i> , 2002, 3, 461.	2.6	560
79	Enzyme Mediated Extracellular Synthesis of CdS Nanoparticles by the Fungus, <i>Fusarium oxysporum</i> . <i>Journal of the American Chemical Society</i> , 2002, 124, 12108-12109.	13.7	509
80	COMPARTMENT FIRES: A SIMPLE MATHEMATICAL MODEL. <i>Journal of Applied Fire Science</i> , 2002, 11, 53-74.	0.0	3
81	COMPARTMENT FIRES: AN EXPERIMENTAL STUDY. <i>Journal of Applied Fire Science</i> , 2002, 11, 255-277.	0.0	5
82	Bioreduction of AuCl ₄ ⁻ Ions by the Fungus, <i>Verticillium sp.</i> and Surface Trapping of the Gold Nanoparticles Formed D.M. and S.S. thank the Council of Scientific and Industrial Research (CSIR), Government of India, for financial assistance.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3585.	13.8	768
83	Fungus-Mediated Synthesis of Silver Nanoparticles and Their Immobilization in the Mycelial Matrix: A Novel Biological Approach to Nanoparticle Synthesis. <i>Nano Letters</i> , 2001, 1, 515-519.	9.1	1,181
84	Organo-functionalized surface modified MCM-41 type mesoporous materials having various organic functional groups. <i>Studies in Surface Science and Catalysis</i> , 2000, 129, 283-286.	1.5	11
85	Amphoterization of Colloidal Gold Particles by Capping with Valine Molecules and Their Phase Transfer from Water to Toluene by Electrostatic Coordination with Fatty Amine Molecules. <i>Langmuir</i> , 2000, 16, 9775-9783.	3.5	64
86	Enhancement in the reaction rates in the hydroxylation of aromatics over TS-1/H ₂ O ₂ under solvent-free triphase conditions. <i>Catalysis Today</i> , 1999, 49, 185-191.	4.4	47
87	Triphase Catalysis over Titanium-Silicate Molecular Sieves under Solvent-free Conditions. <i>Journal of Catalysis</i> , 1998, 178, 101-107.	6.2	93
88	Triphase, solvent-free catalysis over the TS-1/H ₂ O ₂ system in selective oxidation reactions. <i>Microporous and Mesoporous Materials</i> , 1998, 21, 497-504.	4.4	45
89	Catalyzing the preparation of zeolite catalysts. <i>Studies in Surface Science and Catalysis</i> , 1998, 113, 225-232.	1.5	1
90	A new method for enhancing zeolite crystallization by using oxyacids/salts of group VA and VIIA elements as promoters. <i>Studies in Surface Science and Catalysis</i> , 1997, 105, 141-148.	1.5	3

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91	Selective Fries rearrangement of phenyl acetate into hydroxy acetophenones catalyzed by high-silica zeolite NCL-1. <i>Studies in Surface Science and Catalysis</i> , 1997, , 1197-1202.	1.5	1
92	A facile and selective synthesis of β -keto esters via zeolite catalysed transesterification. <i>Chemical Communications</i> , 1996, , 707-708.	4.1	57
93	Synthesis, characterization and catalytic properties of ferri- and gallo-silicate analogues of zeolite NCL-1. <i>Catalysis Letters</i> , 1996, 38, 245-249.	2.6	3
94	Baeyer-Villiger rearrangement catalysed by titanium silicate molecular sieve (TS-1)/H ₂ O ₂ system. <i>Catalysis Letters</i> , 1996, 40, 47-50.	2.6	80
95	Chemo- und diastereoselektive Epoxidierung von chiralen Allylalkoholen mit dem Wasserstoffperoxid-Harnstoff-Addukt (UHP), katalysiert durch das Titansilicat TS-1. <i>Angewandte Chemie</i> , 1996, 108, 944-947.	2.0	8
96	Promoter-induced enhancement of the crystallization rate of zeolites and related molecular sieves. <i>Nature</i> , 1996, 381, 298-300.	27.8	151
97	Synthesis of MTW-type microporous material and its vanadium-silicate analogue using a new diquaternary ammonium cation as a template. <i>Microporous Materials</i> , 1995, 5, 173-178.	1.6	20
98	Low temperature, efficient synthesis of new As(V)-silicate molecular sieves with MFI topology and their catalytic properties in oxidation reactions. <i>Catalysis Letters</i> , 1995, 35, 327-334.	2.6	7
99	Selective oxidation with redox metallosilicates in the production of fine chemicals. <i>Studies in Surface Science and Catalysis</i> , 1995, 97, 367-376.	1.5	20
100	Oxidative Organic Transformations Catalyzed by Titanium- and Vanadium-Silicate Molecular Sieves. <i>Synlett</i> , 1995, 1995, 289-298.	1.8	59
101	Titanium silicate molecular sieve (TS-1)/H ₂ O ₂ induced triphase catalysis in the oxidation of hydrophobic organic compounds with significant enhancement of activity and Para-selectivity. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 349.	2.0	75
102	Hydroxy-assisted chemo- and stereo-selective epoxidation catalysed by a titanium silicate molecular sieve (TS-1)/H ₂ O ₂ system. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1315.	2.0	48
103	Chemoselective oxidation of organic compounds having two or more functional groups. <i>Studies in Surface Science and Catalysis</i> , 1994, , 1883-1888.	1.5	30
104	Characterization of the pore geometry of the high-silica zeolite NCL-1 through various catalytic test reactions. <i>Microporous Materials</i> , 1994, 3, 195-200.	1.6	12
105	Convenient synthesis of crystalline microporous transition metal silicates using complexing agents. <i>Studies in Surface Science and Catalysis</i> , 1994, , 109-116.	1.5	18
106	Synthesis and characterization of a crystalline vanadium silicate with MEL structure. <i>Zeolites</i> , 1993, 13, 663-670.	0.5	32
107	Transition metal-silicate analogs of zeolites. <i>Catalysis Letters</i> , 1993, 22, 227-237.	2.6	30
108	CATALYTIC PROPERTIES OF [Al]-, [Ga]- AND [Fe]-SILICATE ANALOGS OF ZSM-11 IN C ₇ AND C ₈ AROMATIC HYDROCARBON REACTIONS: INFLUENCE OF ISOMORPHOUS SUBSTITUTION. , 1993, , 551-558.		1

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109	Sulfoxidation of thioethers using titanium silicate molecular sieve catalysts. Journal of the Chemical Society Chemical Communications, 1992, , 84.	2.0	90
110	Crystallization kinetics of a new titanium silicate with MEL structure (TS-2). Zeolites, 1992, 12, 95-100.	0.5	63
111	Ferrisilicate analogs of zeolites. Catalysis Today, 1991, 9, 329-416.	4.4	205
112	Synthesis of zeolite beta using silica gel as a source of SiO ₂ . Journal of Chemical Technology and Biotechnology, 1990, 48, 453-466.	3.2	34
113	The spaciousness index: A novel test reaction for characterizing the effective pore width of bifunctional zeolite catalysts. Applied Catalysis, 1986, 27, 207-210.	0.8	85
114	Equilibrium studies on some heteroligand hydroxo complexes of lanthanons with iminodiacetic acid and citraconic or maleic acid. Monatshefte für Chemie, 1984, 115, 283-288.	1.8	1
115	Heteroligand complexes of some rare earth metals with CDTA and unsaturated dicarboxylic acids. Journal of Inorganic and Nuclear Chemistry, 1981, 43, 2503-2506.	0.5	7
116	Mixed ligand chelates of some rare earth metals with diethylenetriamine-pentaacetic acid and dicarboxylic acids. Monatshefte für Chemie, 1979, 110, 907-912.	1.8	5