

# Rajadurai Chandrasekar

## List of Publications by Year in descending order

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94  
papers

3,643  
citations

117625

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149698

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101  
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101  
docs citations

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times ranked

2528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversibly Shape-Shifting Organic Optical Waveguides: Formation of Organic Nanorings, Nanotubes, and Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3556-3561.	13.8	196
2	Mechanophotonics: Flexible Single-Crystal Organic Waveguides and Circuits. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13852-13858.	13.8	184
3	Micro- and Nanopatterning of Spin-Transition Compounds into Logical Structures. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8596-8600.	13.8	155
4	Organic photonics: prospective nano/micro scale passive organic optical waveguides obtained from $\pi$ -conjugated ligand molecules. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7173.	2.8	139
5	Next-Generation Organic Photonics: The Emergence of Flexible Crystal Optical Waveguides. <i>Advanced Optical Materials</i> , 2020, 8, 2000959.	7.3	134
6	Micromanipulation of Mechanically Compliant Organic Single-Crystal Optical Microwaveguides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13821-13830.	13.8	129
7	Organic Submicro Tubular Optical Waveguides: Self-Assembly, Diverse Geometries, Efficiency, and Remote Sensing Properties. <i>Advanced Optical Materials</i> , 2013, 1, 305-311.	7.3	114
8	Switching of a coupled spin pair in a single-molecule junction. <i>Nature Nanotechnology</i> , 2013, 8, 575-579.	31.5	107
9	Photonic Microrods Composed of Photoswitchable Molecules: Erasable Heterostructure Waveguides for Tunable Optical Modulation. <i>Advanced Optical Materials</i> , 2015, 3, 1035-1040.	7.3	86
10	Two-Photon Luminescence and Second-Harmonic Generation in Organic Nonlinear Surface Comprised of Self-Assembled Frustum Shaped Organic Microlasers. <i>Advanced Materials</i> , 2017, 29, 1605260.	21.0	75
11	Mechanically Reconfigurable Organic Photonic Integrated Circuits Made from Two Electronically Different Flexible Microcrystals. <i>Advanced Functional Materials</i> , 2021, 31, 2100642.	14.9	74
12	Tuning the spin-transition properties of pyrene-decorated 2,6-bispyrazolylpyridine based Fe(ii) complexes. <i>Dalton Transactions</i> , 2011, 40, 7564.	3.3	73
13	Spin Transition in a Chainlike Supramolecular Iron(II) Complex. <i>Inorganic Chemistry</i> , 2006, 45, 10019-10021.	4.0	71
14	Advanced Organic and Polymer Whispering-Gallery-Mode Microresonators for Enhanced Nonlinear Optical Light. <i>Advanced Optical Materials</i> , 2018, 6, 1800343.	7.3	70
15	Ordering and Stabilization of Metal-Organic Coordination Chains by Hierarchical Assembly through Hydrogen Bonding at a Surface. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8835-8838.	13.8	68
16	Light Propagation in High-Spin Organic Microtubes Self-Assembled from Shape Persistent Macrocycles Carrying Oxo-Verdazyl Biradicals. <i>Advanced Materials</i> , 2013, 25, 2963-2967.	21.0	65
17	Engineering the Self-Assembly of DCM Dyes into Whispering-Gallery-Mode $\frac{1}{4}$ -Hemispheres and Fabry-Pérot-Type $\frac{1}{4}$ -Rods for Visible-NIR (600-875 nm) Range Optical Microcavities. <i>Advanced Optical Materials</i> , 2016, 4, 112-119.	7.3	64
18	Mechanophotonics-Mechanical Micromanipulation of Single-Crystals toward Organic Photonic Integrated Circuits. <i>Small</i> , 2021, 17, e2100277.	10.0	64

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19	Passive optical waveguiding organic rectangular tubes: tube cutting, controlling light propagation distance and multiple optical out-puts. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1404.	5.5	60
20	Micromechanical Fabrication of Resonator Waveguides Integrated Four-Port Photonic Circuit from Flexible Organic Single Crystals. <i>Advanced Optical Materials</i> , 2021, 9, 2100550.	7.3	60
21	Assembling Isostructural Metal-Organic Coordination Architectures on Cu(100), Ag(100) and Ag(111) Substrates. <i>ChemPhysChem</i> , 2008, 9, 2495-2499.	2.1	56
22	Geometrically Reconfigurable, 2D, All-Organic Photonic Integrated Circuits Made from Two Mechanically and Optically Dissimilar Crystals. <i>Advanced Functional Materials</i> , 2021, 31, 2105415.	14.9	54
23	“Click-Fluors” Synthesis of a Family of $\pi$ -Conjugated Fluorescent Back-to-Back Coupled 2,6-Bis(triazol-1-yl)pyridines and Their Self-Assembly Studies. <i>Journal of Organic Chemistry</i> , 2010, 75, 4852-4855.	3.2	53
24	Chirality-Controlled Multiphoton Luminescence and Second-Harmonic Generation from Enantiomeric Organic Micro-Optical Waveguides. <i>Advanced Optical Materials</i> , 2019, 7, 1801775.	7.3	53
25	Planar Active Organic Waveguide and Wavelength Filter: Self-Assembled meso-Tetratolylporphyrin Hexagonal Nanosheet. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1488-1494.	8.0	51
26	Mechanophotonics “a guide to integrating microcrystals toward monolithic and hybrid all-organic photonic circuits. <i>Chemical Communications</i> , 2022, 58, 3415-3428.	4.1	49
27	Multiluminescent Hybrid Organic/Inorganic Nanotubular Structures: One-Pot Fabrication of Tricolor (Blue-Red-Purple) Luminescent Parallelepipedic Organic Superstructure Grafted with Europium Complexes. <i>Advanced Functional Materials</i> , 2011, 21, 667-673.	14.9	48
28	White-Emitting Conjugated Polymer/Inorganic Hybrid Spheres: Phenylethynyl and 2,6-Bis(pyrazolyl)pyridine Copolymer Coordinated to Eu(tta) <sub>3</sub> . <i>Advanced Functional Materials</i> , 2013, 23, 5875-5880.	14.9	47
29	Engineering self-assembled fluorescent organic nanotapes and submicrotubes from $\pi$ -conjugated molecules. <i>Chemical Communications</i> , 2010, 46, 2915.	4.1	44
30	Supramolecular lattice-solvent control of iron(ii) spin transition parameters. <i>CrystEngComm</i> , 2010, 12, 2361.	2.6	43
31	Single-particle to single-particle transformation of an active type organic $\frac{1}{4}$ -tubular homo-structure photonic resonator into a passive type hetero-structure resonator. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15528-15533.	2.8	43
32	Selective Coordination Bonding in Metallo-Supramolecular Systems on Surfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4327-4331.	13.8	40
33	Chiral organic photonics: self-assembled micro-resonators for an enhanced circular dichroism effect in the non-linear optical signal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12349-12353.	5.5	40
34	Mechanophotonics: Flexible Single-Crystal Organic Waveguides and Circuits. <i>Angewandte Chemie</i> , 2020, 132, 13956-13962.	2.0	37
35	Ambient Pressure Sublimation Technique Provides Polymorph-Selective Perylene Nonlinear Optical Microcavities. <i>Advanced Optical Materials</i> , 2020, 8, 1901317.	7.3	36
36	Mechanical Processing of Naturally Bent Organic Crystalline Microoptical Waveguides and Junctions. <i>Small</i> , 2021, 17, e2006795.	10.0	36

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37	Vapour-Phase Epitaxial Growth of Dual-Colour-Emitting DCM-Perylene Micro-Heterostructure Optical Waveguides. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4577-4581.	3.3	32
38	An Iron(II) Spin-Transition Compound with Thiol Anchoring Groups. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2649-2653.	2.0	31
39	Flexible and Optically Transparent Polymer Embedded Nano/Micro Scale Spin Crossover Fe(II) Complex Patterns/Arrays. <i>Chemistry of Materials</i> , 2013, 25, 3408-3413.	6.7	30
40	White Light Emitting Films from Eu(III) Complexed Copolymers of Alternating Fluorene and Bis(pyrazolyl)pyridine Derivatives. <i>Macromolecules</i> , 2013, 46, 362-369.	4.8	30
41	Micromanipulation of Mechanically Compliant Organic Single-Crystal Optical Microwaveguides. <i>Angewandte Chemie</i> , 2020, 132, 13925-13934.	2.0	30
42	Terahertz radiation and second-harmonic generation from a single-component polar organic ferroelectric crystal. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9330-9335.	5.5	28
43	Polymorphism and microcrystal shape dependent luminescence, optical waveguiding and resonator properties of coumarin-153. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7262-7269.	5.5	27
44	Micropatterning of Metallopolymers: Syntheses of Back-to-Back Coupled Octylated 2,6-Bis(pyrazolyl)pyridine Ligands and Their Solution-Processable Coordination Polymers. <i>Journal of Organic Chemistry</i> , 2012, 77, 3620-3626.	3.2	26
45	Tuning the Solid State Emission of Thin Films/Microspheres Obtained from Alternating Oligo(3-octylthiophenes) and 2,6-Bis(pyrazole)pyridine Copolymers by Varying Conjugation Length and Eu <sup>3+</sup> /Tb <sup>3+</sup> Metal Coordination. <i>Macromolecules</i> , 2015, 48, 4801-4812.	4.8	26
46	Integrating Triply- and Singly-Bent Highly Flexible Crystal Optical Waveguides for Organic Photonic Circuit with a Long-Pass Filter Effect. <i>Small Structures</i> , 2022, 3, .	12.0	25
47	Synthesis, crystal structure and magnetism of centrosymmetric linear trinuclear copper(II) complex of pyridine nitronyl nitroxide derivative. <i>Inorganica Chimica Acta</i> , 2004, 357, 581-587.	2.4	24
48	Visible-Near-Infrared Range Whispering Gallery Resonance from Photonic 1/4-Sphere Cavities Self-Assembled from a Blend of Polystyrene and Poly[4,7-bis(3-octylthiophene-2-yl)benzothiadiazole-co-2,6-bis(pyrazolyl)pyridine] Coordinated to Tb(acac) <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 952-958.	8.0	23
49	2D Arrangement of Polymer Microsphere Photonic Cavities Doped with Novel N-Rich Carbon Quantum Dots Display Enhanced One- and Two-Photon Luminescence Driven by Optical Resonances. <i>Advanced Optical Materials</i> , 2017, 5, 1700695.	7.3	21
50	Mechanical Actuation and Patterning of Rewritable Crystalline Monomer-Polymer Heterostructures via Topochemical Polymerization in a Dual-Responsive Photochromic Organic Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16856-16863.	8.0	21
51	Multifunctional Chiral Conjugated Polymer Microspheres: Production and Confinement of NLO signal, Detection of Circularly Polarized Light, and Display of Laser-Triggered NLO Emission Shifts. <i>Advanced Optical Materials</i> , 2020, 8, 2000431.	7.3	21
52	Micromechanically-Powered Rolling Locomotion of a Twisted-Crystal Optical Waveguide Cavity as a Mobile Light Polarization Rotor. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	21
53	Two- to one-dimensional transition of self-assembled coordination networks at surfaces by organic ligand addition. <i>Chemical Communications</i> , 2009, , 2502.	4.1	20
54	The Photonic Side of Curcumin: Microsphere Resonators Self-Assembled from Curcumin Derivatives Emitting Visible/Near-Infrared Light. <i>Advanced Optical Materials</i> , 2017, 5, 1600613.	7.3	20

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55	Realization of Mechanically Maneuverable Circuit Ports in Organic Hybrid Photonic Chip for 360° Steering of Bandwidth-Engineered Signals. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	20
56	A Two-Photon Pumped Supramolecular Upconversion Microresonator. <i>ChemNanoMat</i> , 2018, 4, 764-768.	2.8	19
57	Room-temperature phosphorescent organic materials for optical waveguides. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14115-14132.	5.5	18
58	Hierarchical multicolor nano-pixel matrices formed by coordinating luminescent metal ions to a conjugated poly(4-octyl-2,6-bispyrazoyl pyridine) film via contact printing. <i>Scientific Reports</i> , 2015, 5, 8406.	3.3	17
59	Photonic Microresonators from Charge Transfer in Polymer Particles: Toward Enhanced and Tunable Two-Photon Emission. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16723-16730.	8.0	17
60	Metal-Biradical Chains from a High-Spin Ligand and Bis(hexafluoroacetylacetonato)copper(II). <i>Inorganic Chemistry</i> , 2006, 45, 9664-9669.	4.0	16
61	Triple Emission from Organic/Inorganic Hybrid Nanovesicles in a Single Excitation. <i>ChemPhysChem</i> , 2011, 12, 2391-2396.	2.1	16
62	Passive optical waveguiding tubular pharmaceutical solids and Raman spectroscopy/mapping of nano-/micro-scale defects. <i>CrystEngComm</i> , 2014, 16, 4696.	2.6	16
63	(Polypyridyl)ruthenium(II) Complexes Based on a Bis(pyrazolylpyridine) Bridging Ligand. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 53-61.	2.0	15
64	Super hybrid tridentate ligands 4-substituted-2-(1-butyl-1H-1,2,3-triazol-4-yl)-6-(1H-pyrazol-1-yl)pyridine ligands coordinated to Fe(II) ions display above room temperature spin transitions. <i>Dalton Transactions</i> , 2010, 39, 9872.	3.3	15
65	High Optical Energy Storage and Two-Photon Luminescence from Solution-Processed Perovskite-Polystyrene Composite Microresonators. <i>ACS Applied Energy Materials</i> , 2019, 2, 428-435.	5.1	15
66	Mechanophotonic aspects of a room temperature phosphorescent flexible organic microcrystal. <i>CrystEngComm</i> , 2021, 23, 5774-5779.	2.6	15
67	Syntheses, optical and intramolecular magnetic properties of mono- and di-radicals based on nitronyl-nitroxide and oxoverdazyl groups appended to 2,6-bispyrazolylpyridine cores. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2439.	2.8	14
68	Magnetic Interactions in Supramolecular NO <sub>2</sub> -HC≡C Type Hydrogen-Bonded Nitronyl Nitroxide Radical Chains. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4327-4334.	2.6	13
69	Mechanophotonics: precise selection, assembly and disassembly of polymer optical microcavities via mechanical manipulation for spectral engineering. <i>Nanoscale Advances</i> , 2020, 2, 5584-5590.	4.6	13
70	Adaptable Optical Microwaveguides From Mechanically Flexible Crystalline Materials. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	12
71	Hot-exciton harvesting through-space single-molecule based white-light emission and optical waveguides. <i>Chemical Science</i> , 2022, 13, 9004-9015.	7.4	12
72	Lithographically organized 1D nano-tape arrays composed of solution processable above room temperature spin cross-over Fe(II) coordination polymer. <i>RSC Advances</i> , 2014, 4, 34760.	3.6	11

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73	Enhanced nonlinear optical effects in organic frustum-shaped microresonators. <i>Laser Physics Letters</i> , 2017, 14, 035403.	1.4	8
74	Polymorphism and metal-induced structural transformation in 5,5'-bis(4-pyridyl)(2,2'-bispyrimidine) adlayers on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15960-15969.	2.8	8
75	Whispering gallery modes in two-photon fluorescence from spherical DCM dye microresonators. <i>Laser Physics Letters</i> , 2018, 15, 035401.	1.4	8
76	A supramolecular network of 2-(4,4,5,5-tetramethyl-3-oxylimidazoline-1-oxide)-5-bromopyridine built through $\pi$ - $\pi$ stacking and hydrogen bonding interactions. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 257-262.	1.9	6
77	Chirality driven effects in multiphoton excited whispering gallery mode microresonators prepared by a self-assembly technique. <i>Laser Physics Letters</i> , 2020, 17, 036201.	1.4	6
78	Micromechanically-Powered Rolling Locomotion of a Twisted-Crystal Optical-Waveguide Cavity as a Mobile Light Polarization Rotor. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
79	Self-Assembly of $\alpha$ -Chalcone-Type Push-Pull Dye Molecules into Organic Single Crystalline Microribbons and Rigid Microrods for Vis/NIR Range Photonic Cavity Applications. <i>ChemPhysChem</i> , 2016, 17, 3435-3441.	2.1	5
80	Regioselective, One-Pot Syntheses of Symmetrically and Unsymmetrically Halogenated 2,6-Bispyrazolylpyridines. <i>Synthesis</i> , 2009, 2009, 4042-4048.	2.3	4
81	Spatiotemporal Growth Anomalies in Photoisomerizable Cyanostilbene-Based Crystals Triggered by Light. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4909-4916.	3.1	4
82	Magnetic Field-Assisted Manipulation of Polymer Optical Microcavities. <i>Advanced Photonics Research</i> , 2021, 2, 2000146.	3.6	4
83	Hierarchical lithographic patterning of two abrupt spin cross-over Fe(II) complexes into micro-cross-strips. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	3
84	Polarised Optical Emission from Organic Anisotropic Microoptical Waveguides Grown by Ambient Pressure Vapour Deposition. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3476-3480.	3.3	3
85	Shape-Defined and Shape-Shifting Paramagnetic Organic Nano/Microstructures Derived From a Doublet State Nitronyl Nitroxide Radical. <i>ChemPlusChem</i> , 2012, 77, 1062-1065.	2.8	2
86	Fabrication of High-Resolution 4,8<sup>2</sup>-Type Archimedean Nanolattices Composed of Solution Processable Spin Cross-Over Fe(II) Metallosupramolecular Polymers. <i>Macromolecular Rapid Communications</i> , 2015, 36, 647-653.	3.9	2
87	Direct micro-scale monitoring of molecular aggregation, its growth and diffusion <i>via</i> aggregation-induced emission. <i>Soft Matter</i> , 2020, 16, 2664-2668.	2.7	2
88	Laser intensity-dependent nonlinear-optical effects in organic whispering gallery mode cavity microstructures. <i>Optics Letters</i> , 2020, 45, 4622.	3.3	2
89	Optical Waveguiding Organic Nanorods Coated with Reversibly Switchable Fe(II) Spin Transition Nanoparticles. <i>Indian Journal of Materials Science</i> , 2013, 2013, 1-7.	0.6	1
90	Waveguides: Photonic Microrods Composed of Photoswitchable Molecules: Erasable Heterostructure Waveguides for Tunable Optical Modulation ( <i>Advanced Optical Materials</i> 8/2015). <i>Advanced Optical Materials</i> , 2015, 3, 1034-1034.	7.3	1

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91	Inside Cover: Ordering and Stabilization of Metal-Organic Coordination Chains by Hierarchical Assembly through Hydrogen Bonding at a Surface (Angew. Chem. Int. Ed. 46/2008). Angewandte Chemie - International Edition, 2008, 47, 8752-8752.	13.8	0
92	Innentitelbild: Ordering and Stabilization of Metal-Organic Coordination Chains by Hierarchical Assembly through Hydrogen Bonding at a Surface (Angew. Chem. 46/2008). Angewandte Chemie, 2008, 120, 8880-8880.	2.0	0
93	Regioselective, One-Pot Syntheses of Symmetrically and Unsymmetrically Halogenated 2,6-Bispyrazolylpyridines. Synthesis, 2009, 2009, e9-e9.	2.3	0
94	Organic Nanovesicular Cargoes for Sustained Drug Delivery: Synthesis, Vesicle Formation, Controlling "Pearling" States, and Terfenadine Loading/Release Studies. Journal of Nanotechnology, 2014, 2014, 1-13.	3.4	0