

# Loon-Seng Tan

## List of Publications by Year in descending order

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181  
papers

8,297  
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57758

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184  
docs citations

184  
times ranked

8360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphoton Absorbing Materials: Molecular Designs, Characterizations, and Applications. <i>Chemical Reviews</i> , 2008, 108, 1245-1330.	47.7	1,906
2	Thermal Stability of Quaternary Phosphonium Modified Montmorillonites. <i>Chemistry of Materials</i> , 2002, 14, 4837-4845.	6.7	359
3	Diphenylaminofluorene-Based Two-Photon-Absorbing Chromophores with Various $\pi$ -Electron Acceptors. <i>Chemistry of Materials</i> , 2001, 13, 1896-1904.	6.7	271
4	Singlet Oxygen Generation via Two-Photon Excited FRET. <i>Journal of the American Chemical Society</i> , 2004, 126, 5380-5381.	13.7	228
5	Toward Highly Active Two-Photon Absorbing Liquids. Synthesis and Characterization of 1,3,5-Triazine-Based Octupolar Molecules. <i>Chemistry of Materials</i> , 2004, 16, 185-194.	6.7	215
6	In Situ Synthesis of Poly(ethylene terephthalate) (PET) in Ethylene Glycol Containing Terephthalic Acid and Functionalized Multiwalled Carbon Nanotubes (MWNTs) as an Approach to MWNT/PET Nanocomposites. <i>Chemistry of Materials</i> , 2005, 17, 5057-5064.	6.7	172
7	High-Temperature and High-Energy-Density Dipolar Glass Polymers Based on Sulfonylated Poly(2,6-dimethyl-1,4-phenylene oxide). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1528-1531.	13.8	125
8	Photomechanical Response of Glassy Azobenzene Polyimide Networks. <i>Macromolecules</i> , 2011, 44, 3840-3846.	4.8	122
9	Light-Harvesting Chromophores with Metalated Porphyrin Cores for Tuned Photosensitization of Singlet Oxygen via Two-Photon Excited FRET. <i>Chemistry of Materials</i> , 2006, 18, 3682-3692.	6.7	112
10	Synthesis, Characterization, Two-Photon Absorption, and Optical Limiting Properties of Ladder-Type Oligo-phenylene-Cored Chromophores. <i>Advanced Functional Materials</i> , 2008, 18, 2770-2779.	14.9	107
11	Two-Photon Excitation and Optical Spatial-Profile Reshaping via a Nonlinear Absorbing Medium. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4805-4810.	2.5	104
12	Direct Three-Dimensional Microfabrication of Hydrogels via Two-Photon Lithography in Aqueous Solution. <i>Chemistry of Materials</i> , 2009, 21, 2003-2006.	6.7	104
13	Enhancement of Photogenerated Mechanical Force in Azobenzene-Functionalized Polyimides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4117-4121.	13.8	99
14	Degenerate nonlinear absorption and optical power limiting properties of asymmetrically substituted stilbenoid chromophores. Electronic supplementary information (ESI) available: Experimental details. See <a href="http://www.rsc.org/suppdata/jm/b3/b313185h/">http://www.rsc.org/suppdata/jm/b3/b313185h/</a> . <i>Journal of Materials Chemistry</i> , 2004, 14, 982.	6.7	95
15	Contactless, photoinitiated snap-through in azobenzene-functionalized polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18792-18797.	7.1	92
16	Polymer design for high temperature shape memory: Low crosslink density polyimides. <i>Polymer</i> , 2013, 54, 391-402.	3.8	90
17	Enhancing electrical energy storage using polar polyimides with nitrile groups directly attached to the main chain. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20683-20696.	10.3	90
18	Grafting of Vapor-Grown Carbon Nanofibers via in-Situ Polycondensation of 3-Phenoxybenzoic Acid in Poly(phosphoric acid). <i>Macromolecules</i> , 2004, 37, 8278-8285.	4.8	88

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19	Covalent modification of vapour-grown carbon nanofibers via direct Friedel-Crafts acylation in polyphosphoric acid. <i>Journal of Materials Chemistry</i> , 2004, 14, 2052-2056.	6.7	85
20	Frequency-Driven Self-Organized Helical Superstructures Loaded with Mesogen-Grafted Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13090-13094.	13.8	85
21	Fluorescence Resonance Energy Transfer in Novel Multiphoton Absorbing Dendritic Structures. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8592-8600.	2.6	83
22	Large-scale self-assembly of dispersed nanodiamonds. <i>Journal of Materials Chemistry</i> , 2008, 18, 1347.	6.7	83
23	Synthesis and characterization of high nitrile content polyimides as dielectric films for electrical energy storage. <i>Journal of Polymer Science Part A</i> , 2015, 53, 422-436.	2.3	83
24	Impact of Backbone Rigidity on the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides. <i>Macromolecules</i> , 2014, 47, 659-667.	4.8	81
25	Modification of bisphenol-A based bismaleimide resin (BPA-BMI) with an allyl-terminated hyperbranched polyimide (AT-PAEKI). <i>Polymer</i> , 2006, 47, 2813-2821.	3.8	77
26	Functionalization of multi-walled carbon nanotubes with various 4-substituted benzoic acids in mild polyphosphoric acid/phosphorous pentoxide. <i>Carbon</i> , 2008, 46, 1850-1859.	10.3	75
27	Degenerate two-photon-absorption spectral studies of highly two-photon active organic chromophores. <i>Journal of Chemical Physics</i> , 2004, 120, 5275-5284.	3.0	74
28	Multiwalled carbon nanotubes and nanofibers grafted with polyetherketones in mild and viscous polymeric acid. <i>Polymer</i> , 2006, 47, 1132-1140.	3.8	66
29	Understanding the One-Photon Photophysical Properties of a Two-Photon Absorbing Chromophore. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5514-5520.	2.5	63
30	Single- and Two-Photon Properties of a Dye-Derivatized Roussin's Red Salt Ester ( $\text{Fe}_2(\frac{1}{4}\text{-RS})_2(\text{NO})_4$ ) with a Large TPA Cross Section. <i>Inorganic Chemistry</i> , 2007, 46, 395-402.	4.0	63
31	Chloro(dimethylamido) compounds of tantalum(V): Preparations, properties, and structures of $[\text{Ta}(\text{NMe}_2)_3\text{Cl}_2]_2$ , $\text{TaCl}_3(\text{NMe}_2)_2(\text{HNMe}_2)$ , $\text{Ta}(\text{NMe}_2)_3\text{Cl}_2(\text{HNMe}_2)$ , and $[\text{TaCl}_2(\text{NMe}_2)_2(\text{HNMe}_2)]_2\text{O}$ . <i>Inorganic Chemistry</i> , 1981, 20, 1859-1866.	4.0	62
32	Electrothermal Polymer Nanocomposite Actuators. <i>Advanced Materials</i> , 2010, 22, 3430-3435.	21.0	60
33	Thermal-Electrical Character of in Situ Synthesized Polyimide-Grafted Carbon Nanofiber Composites. <i>Macromolecules</i> , 2008, 41, 8053-8062.	4.8	58
34	Crystal and molecular structures of tert-butyltetrakis(dimethylamido)tantalum(V), bromo(p-tolyl)tris(dimethylamido)tantalum(V), and [(trimethylsilyl)methyl]tetrakis(N,N-dimethylcarbamato)tantalum(V). Evidence for stabilization of $\sigma$ -alkyl ligands by strongly $\pi$ -donating ligands in early transition metal chemistry. <i>Journal of the American Chemical Society</i> , 1982, 104, 4879-4884.	13.7	57
35	Semimetallic Transport in Nanocomposites Derived from Grafting of Linear and Hyperbranched Poly(phenylene sulfide)s onto the Surface of Functionalized Multi-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2008, 41, 7423-7432.	4.8	56
36	In situ grafting of carboxylic acid-terminated hyperbranched poly(ether-ketone) to the surface of carbon nanotubes. <i>Polymer</i> , 2007, 48, 4034-4040.	3.8	54

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37	A New Hyperbranched Poly(arylene ether ketone imide): Synthesis, Chain-End Functionalization, and Blending with a Bis(maleimide). <i>Macromolecules</i> , 2002, 35, 4951-4959.	4.8	53
38	Benzocyclobutene in polymer synthesis. I. Homopolymerization of bisbenzocyclobutene aromatic imides to form high-temperature resistant thermosetting resins. <i>Journal of Polymer Science Part A</i> , 1988, 26, 1819-1834.	2.3	52
39	Improved syntheses of poly(oxy-1,3-phenylenecarbonyl-1,4-phenylene) and related poly(ether ketones) using polyphosphoric acid/P2O5 as polymerization medium. <i>Polymer</i> , 2003, 44, 4135-4147.	3.8	52
40	Nanocomposites based on vapor-grown carbon nanofibers and an epoxy: Functionalization, preparation and characterization. <i>European Polymer Journal</i> , 2010, 46, 1404-1416.	5.4	51
41	Plasmonic Enhancement of the Two Photon Absorption Cross Section of an Organic Chromophore Using Polyelectrolyte-Coated Gold Nanorods. <i>Langmuir</i> , 2012, 28, 9147-9154.	3.5	50
42	Synthesis and characterization of highly photoresponsive fullereryl dyads with a close chromophore antenna-C60 contact and effective photodynamic potential. <i>Journal of Materials Chemistry</i> , 2010, 20, 5280.	6.7	49
43	Synthesis of C60-diphenylaminofluorene dyad with large 2PA cross-sections and efficient intramolecular two-photon energy transfer. <i>Chemical Communications</i> , 2002, , 1854-1855.	4.1	48
44	Large Cross-Section Enhancement and Intramolecular Energy Transfer upon Multiphoton Absorption of Hindered Diphenylaminofluorene-C60 Dyads and Triads. <i>Chemistry of Materials</i> , 2006, 18, 4065-4074.	6.7	48
45	New technique for degenerate two-photon absorption spectral measurements using femtosecond continuum generation. <i>Optics Express</i> , 2002, 10, 566.	3.4	47
46	In-Situ Grafting of Hyperbranched Poly(ether ketone)s onto Multiwalled Carbon Nanotubes via the A3 + B2 Approach. <i>Macromolecules</i> , 2007, 40, 4474-4480.	4.8	46
47	Tailoring the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides by Physical Aging. <i>Macromolecules</i> , 2012, 45, 7527-7534.	4.8	45
48	Molecular Engineering of Azobenzene-Functionalized Polyimides To Enhance Both Photomechanical Work and Motion. <i>Chemistry of Materials</i> , 2014, 26, 5223-5230.	6.7	45
49	Nanocomposites Derived from a Low-Color Aromatic Polyimide (CP2) and Amine-Functionalized Vapor-Grown Carbon Nanofibers: In Situ Polymerization and Characterization. <i>Macromolecules</i> , 2007, 40, 6100-6111.	4.8	44
50	Benzocyclobutene in polymer synthesis. III. Heat-resistant thermosets based on Diels-Alder polymerization of a bisbenzocyclobutene and a bismaleimide. <i>Journal of Polymer Science Part A</i> , 1988, 26, 3103-3117.	2.3	43
51	Effects of Conjugation in Length and Dimension on Spectroscopic Properties of Fluorene-Based Chromophores from Experiment and Theory. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13172-13182.	2.5	42
52	Nanocomposites derived from <i>in situ</i> grafting of linear and hyperbranched poly(ether ketone)s containing flexible oxyethylene spacers onto the surface of multiwalled carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3471-3481.	2.3	41
53	In-Situ Nanocomposite Synthesis: Arylcarbonylation and Grafting of Primary Diamond Nanoparticles with a Poly(ether ketone) in Polyphosphoric Acid. <i>Macromolecules</i> , 2009, 42, 114-124.	4.8	41
54	Study of Two-Photon Absorption Spectral Property of a Novel Nonlinear Optical Chromophore Using Femtosecond Continuum. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11081-11084.	2.6	39

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55	Direct imaging of current paths in multiwalled carbon nanofiber polymer nanocomposites using conducting-tip atomic force microscopy. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	38
56	One-pot purification and functionalization of single-walled carbon nanotubes in less-corrosive poly(phosphoric acid). <i>Carbon</i> , 2008, 46, 1841-1849.	10.3	37
57	Dielectric characteristics of polyimide CP2. <i>Polymer</i> , 2010, 51, 3139-3146.	3.8	37
58	Grafting of polyaniline onto the surface of 4-aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3103-3112.	2.3	37
59	Unusual thermal relaxation of viscosity-and-shear-induced strain in poly(ether-ketones) synthesized in highly viscous polyphosphoric acid/P2O5 medium. <i>Polymer</i> , 2005, 46, 1543-1552.	3.8	36
60	Photomechanical Response of Prestrained Azobenzene-Functionalized Polyimide Materials. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1189-1194.	2.2	36
61	Nanocomposite prepared from <i>in situ</i> grafting of polypyrrole to aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2529-2537.	2.3	35
62	Synthesis and characterization of photoresponsive diphenylaminofluorene chromophore adducts of [60]fullerene. <i>Journal of Materials Chemistry</i> , 2006, 16, 1366.	6.7	34
63	Epoxy/amine-functionalized short-length vapor-grown carbon nanofiber composites. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7473-7482.	2.3	34
64	Direct Measurement of the Percolation Probability in Carbon Nanofiber-Polyimide Nanocomposites. <i>Physical Review Letters</i> , 2009, 102, 116601.	7.8	34
65	New nitrene complexes of niobium and tantalum of the type M(NR)(S2CNR'2)3. <i>Inorganic Chemistry</i> , 1983, 22, 1744-1750.	4.0	33
66	Rigid-rod molecular composites via ionic interactions. <i>Polymer</i> , 1991, 32, 1376-1379.	3.8	33
67	Exciplex Formation in Blended Spin-Cast Films of Fluorene-Linked Dyes and Bisphthalimide Quenchers. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3909-3917.	2.5	33
68	Symmetry- and Solvent-Dependent Photophysics of Fluorenes Containing Donor and Acceptor Groups. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5228-5237.	2.5	33
69	Self-Controlled Synthesis of Hyperbranched Poly(ether ketone)s from A3 + B2 Approach via Different Solubilities of Monomers in the Reaction Medium. <i>Macromolecules</i> , 2006, 39, 9057-9063.	4.8	32
70	Synthesis and electrical properties of polyaniline/polyaniline grafted multiwalled carbon nanotube mixture via <i>in situ</i> static interfacial polymerization. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1962-1972.	2.3	32
71	The contribution of hydrogen bonding to the photomechanical response of azobenzene-functionalized polyamides. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5964-5974.	5.5	32
72	Benzocyclobutene in polymer synthesis. II. Solid state diels-alder polymerization utilizing an <i>in situ</i> generated diene and an alkyne. <i>Journal of Polymer Science Part A</i> , 1987, 25, 3159-3172.	2.3	31

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73	Pseudo-ladder rigid-rod polymers: dihydroxy pendent benzothiazole aromatic heterocyclic polymer and copolymers. <i>Polymer</i> , 1994, 35, 3091-3101.	3.8	30
74	Large concentration-dependent nonlinear optical responses of starburst diphenylaminofluorenyl carbonyl methano[60]fullerene pentads. <i>Journal of Materials Chemistry</i> , 2007, 17, 1826.	6.7	30
75	Simplified tube form factor for analysis of small-angle scattering data from carbon nanotube filled systems. <i>Journal of Applied Crystallography</i> , 2007, 40, s88-s92.	4.5	30
76	Synthesis and characterization of unsymmetrical benzonitrile-containing polyimides: Viscosity-lowering effect and dielectric properties. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4998-5011.	2.3	30
77	Photomechanical Deformation of Azobenzene-Functionalized Polyimides Synthesized with Bulky Substituents. <i>ACS Macro Letters</i> , 2017, 6, 1432-1437.	4.8	30
78	Nylon 610/functionalized multiwalled carbon nanotube composite prepared from <i>in situ</i> interfacial polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6041-6050.	2.3	28
79	Enhancing the fraction of grafted polystyrene on silica hybrid nanoparticles. <i>Polymer</i> , 2012, 53, 79-86.	3.8	27
80	Bisbenzocyclobutene: A thermoset matrix host for rigid-rod molecular composites. <i>Polymer Engineering and Science</i> , 1989, 29, 107-112.	3.1	26
81	Linear-hyperbranched copolymerization as a tool to modulate thermal properties and crystallinity of a para-poly(ether-ketone). <i>Polymer</i> , 2003, 44, 3451-3459.	3.8	26
82	Insight into the Nonlinear Absorbance of Two Related Series of Two-Photon Absorbing Chromophores. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1899-1906.	2.5	26
83	Azobenzene-functionalized polyimides as wireless actuators. <i>Polymer</i> , 2014, 55, 5915-5923.	3.8	26
84	Synthesis and characterization of aromatic polyisoimides derived from PMDA and para-diamines. An approach to <i>in situ</i> generated rigid-rod molecular composites. <i>Polymer</i> , 1990, 31, 2411-2419.	3.8	25
85	Flexural-Torsional Photomechanical Responses in Azobenzene-Containing Crosslinked Polyimides. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1167-1174.	3.6	25
86	Autonomous Motility of Polymer Films. <i>Advanced Materials</i> , 2018, 30, 1705616.	21.0	25
87	Solubilization of Carbon Nanofibers with a Covalently Attached Hyperbranched Poly(ether ketone). <i>Chemistry of Materials</i> , 2008, 20, 1502-1515.	6.7	24
88	Frequency-Driven Self-Organized Helical Superstructures Loaded with Mesogen-Grafted Silica Nanoparticles. <i>Angewandte Chemie</i> , 2016, 128, 13284-13288.	2.0	24
89	Defect/Edge-Selective Functionalization of Carbon Materials by Direct-Friedel-Crafts Acylation Reaction. <i>Advanced Materials</i> , 2017, 29, 1606317.	21.0	24
90	Nonlinear Optical Transmission Properties of C <sub>60</sub> Dyads Consisting of a Light-Harvesting Diphenylaminofluorene Antenna. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9561-9564.	2.6	23

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91	Nonlinear Photoacoustic Imaging by <i>in Situ</i> Multiphoton Upconversion and Energy Transfer. ACS Photonics, 2017, 4, 2699-2705.	6.6	22
92	Poly(2,5-benzoxazole)/carbon nanotube composites via in situ polymerization of 3-amino-4-hydroxybenzoic acid hydrochloride in a mild poly(phosphoric acid). European Polymer Journal, 2008, 44, 1603-1612.	5.4	21
93	Multifunctional poly(2,5-benzimidazole)/carbon nanotube composite films. Journal of Polymer Science Part A, 2010, 48, 1067-1078.	2.3	21
94	Photopiezoelectric Composites of Azobenzene-Functionalized Polyimides and Polyvinylidene Fluoride. Macromolecular Rapid Communications, 2014, 35, 2050-2056.	3.9	21
95	Synthesis and thermal properties of thermosetting bis-benzocyclobutene-terminated arylene ether monomers. Journal of Polymer Science Part A, 1998, 36, 2637-2651.	2.3	20
96	Grafting of vapor-grown carbon nanofibers (VGCNF) with a hyperbranched poly(ether-ketone). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 132, 103-107.	3.5	20
97	Preparation and Electrocatalytic Activity of Gold Nanoparticles Immobilized on the Surface of 4-Mercaptobenzoyl-Functionalized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 1746-1751.	3.1	20
98	Origami-Inspired Fabrication: Self-Folding or Self-Unfolding of Cross-Linked-Polyimide Objects in Extremely Hot Ambience. ACS Macro Letters, 2019, 8, 546-552.	4.8	20
99	Linear and Nonlinear Optical Properties of Photoresponsive [60]Fullerene Hybrid Triads and Tetrads with Dual NIR Two-Photon Absorption Characteristics. Journal of Physical Chemistry C, 2013, 117, 17186-17195.	3.1	19
100	Synthesis and Photophysical Properties of C <sub>60</sub> -Diphenylaminofluorene Dyad and Multiads. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1387-1400.	2.2	18
101	Off-Resonant Two-Photon Absorption Cross-Section Enhancement of an Organic Chromophore on Gold Nanorods. Journal of Physical Chemistry Letters, 2013, 4, 749-752.	4.6	18
102	Role of Alicyclic Conformation-Isomerization in the Photomechanical Performance of Azobenzene-Functionalized Cross-Linked Polyimides Containing Tetra-Substituted Cyclohexane Moieties. ACS Macro Letters, 2021, 10, 278-283.	4.8	17
103	New aromatic benzazole polymers, 3. Synthesis of rigid-rod benzobisazole polymers with main-chain 2,2'-bipyridine-5,5'-diyl units. Macromolecular Rapid Communications, 1999, 20, 16-20.	3.9	16
104	Synthesis and Chain-End Modification of a Novel Hyperbranched Polymer Containing Alternating Quinoxaline and Benzoxazole Repeat Units. Macromolecules, 2006, 39, 7959-7966.	4.8	16
105	Hygromorphic Polymers: Synthesis, Retro-Michael Reaction, and Humidity-Driven Actuation of Ester-Sulfonyl Polyimides and Thermally Derived Copolyimides. Macromolecules, 2016, 49, 3286-3299.	4.8	16
106	Steric hindrance inhibits excited-state relaxation and lowers the extent of intramolecular charge transfer in two-photon absorbing dyes. Physical Chemistry Chemical Physics, 2016, 18, 5587-5596.	2.8	16
107	Room-Temperature Free-Radical-Induced Polymerization of 1,1'-(Methylenedi-1,4-phenylene)bismaleimide via a Novel Diphenylquinoxaline-Containing Hyperbranched Aromatic Polyamide. Macromolecules, 2003, 36, 4385-4396.	4.8	15
108	Regioselective Chemical Modification of Fullerene by Destructive Electrophilic Reaction in Polyphosphoric Acid/Phosphorus Pentoxide. Journal of Physical Chemistry C, 2008, 112, 12188-12194.	3.1	15

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109	Synthesis, emission and spectro-electrochemical studies of bithienynaphthalene systems. <i>Synthetic Metals</i> , 2001, 123, 425-433.	3.9	14
110	Discrete-state photomechanical actuators. <i>Extreme Mechanics Letters</i> , 2016, 9, 45-54.	4.1	14
111	Synthesis of C60-diphenylaminofluorene dyads with two-photon absorbing characteristics. <i>Synthetic Metals</i> , 2005, 154, 185-188.	3.9	13
112	Aromatic Polyimides Containing Main-Chain Diphenylaminofluorene "Benzothiazole Motif: Fluorescence Quenching, Two-Photon Properties, and Exciplex Formation in a Solid State. <i>Macromolecules</i> , 2011, 44, 7194-7206.	4.8	13
113	New aromatic benzazole polymers. I. Benzobisthiazole and benzobisoxazole polymers with main-chain triaryl amino units. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1909-1924.	2.3	12
114	Hyperbranched Poly(phenylquinoxaline ether ketone) Synthesis in Poly(phosphoric acid) / Overlock 10 Tf 50 547 Td (ac 2794-2803.	4.8	12
115	Magnetocurrent of Charge-Polarizable C <sub>60</sub> -Diphenylaminofluorene Monoadduct-Derived Magnetic Nanocomposites. <i>Journal of the American Chemical Society</i> , 2012, 134, 3549-3554.	13.7	12
116	Synthesis and Properties of Polyetherketone-block-Polybenzobisthiazole-block-Polyetherketone ABA Triblock Copolymers. <i>Macromolecules</i> , 2008, 41, 1196-1205.	4.8	11
117	Grafting of 4-(2,4,6-Trimethylphenoxy)benzoyl onto Single-Walled Carbon Nanotubes in Poly(phosphoric acid) via Amide Function. <i>Nanoscale Research Letters</i> , 2009, 4, 766-772.	5.7	11
118	Effects of intramolecular hydrogen bonding and sterically forced non-coplanarity on organic donor/acceptor two-photon-absorbing molecules. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19398-19407.	2.8	11
119	Large Femtosecond Two-Photon Absorption Cross Sections of Fullerosome Vesicle Nanostructures Derived from a Highly Photoresponsive Amphiphilic C60-Light-Harvesting Fluorene Dyad. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18552-18559.	3.1	10
120	Aromatic polyamides containing keto-benzocyclobutene pendants. <i>Journal of Polymer Science Part A</i> , 1996, 34, 3539-3549.	2.3	9
121	Novel photoswitchable dielectric properties on nanomaterials of electronic core-shell $\text{FeO}_x/\text{Au}$ @fullerosomes for GHz frequency applications. <i>Nanoscale</i> , 2016, 8, 6589-6599.	5.6	9
122	Enhanced electrical properties of rigid-rod polymer incorporated with electroactive triaryl amino moieties. <i>Journal of Applied Physics</i> , 1999, 85, 280-286.	2.5	8
123	Thermally reactive phenylethynyl-terminated bis(benzylester) and bis(amide) monomers based on semi-enzymatically produced 6-phenylethynyl picolinic acid. <i>Polymer</i> , 2006, 47, 1197-1206.	3.8	8
124	Synthesis of linear and hyperbranched poly(etherketone)s containing flexible oxyethylene spacers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5112-5122.	2.3	8
125	Highly efficient and two-photon excited stimulated Rayleigh-Bragg scattering in organic solutions. <i>Journal of Applied Physics</i> , 2015, 118, 033102.	2.5	8
126	Intermolecular Interactions and Intramolecular Motions in Photomechanical Effect: Nonlinear Thermo- and Photomechanical Behaviors of Azobenzene-Functionalized Amide-Imide Block Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48127-48140.	8.0	8



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127	Geometrical influence of AB <sub>n</sub> monomer structure on the thermal properties of linear-hyperbranched ether-ether ketone copolymers prepared via an AB+AB <sub>n</sub> route. <i>Polymer</i> , 2005, 46, 9686-9693.	3.8	7
128	Alternative Approach to an AB <sub>2</sub> Monomer for Hyperbranched Poly(Arylene Ether Ketone) Tj ETQq0 0 0,rgBT /Overlock 10 Tf 2.1		
129	Enhancement of Photoswitchable Dielectric Property by Conducting Electron Donors on Plasmonic Core-Shell Gold-Fluorenyl C <sub>60</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12512-12523.	3.1	7
130	New aromatic benzazole polymers II: Synthesis and conductivity of benzobisthiazole-co-polymers incorporated with 4-N,N-dimethylaminotriphenylamine groups. <i>Journal of Polymer Science Part A</i> , 1998, 36, 713-724.	2.3	6
131	Phase-separated, conducting composites from polyaniline and benzobisthiazole rigid-rod polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2539-2548.	2.1	6
132	Production of 6-Phenylacetylene Picolinic Acid from Diphenylacetylene by a Toluene-Degrading <i>Acinetobacter</i> Strain. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4037-4042.	3.1	6
133	Branched poly(arylene ether ketone)s with tailored thermal properties: Effects of AB/AB <sub>2</sub> ratio, core (B <sub>3</sub> ) percentage, and reaction temperature. <i>Polymer</i> , 2008, 49, 3731-3736.	3.8	6
134	Self-controlled synthesis of hyperbranched poly(ether-ether ketone)s from A <sub>2</sub> + B <sub>3</sub> approach in poly(phosphoric acid). <i>Journal of Polymer Science Part A</i> , 2009, 47, 3326-3336.	2.3	6
135	Macromolecular dumbbells: synthesis and photophysical properties of hyperbranched poly(etherketone)-b-polybenzobisthiazole-b-hyperbranched poly(etherketone) ABA triblock copolymers. <i>Journal of Materials Chemistry</i> , 2009, 19, 4172.	6.7	6
136	Immobilization of platinum nanoparticles on 3,4-diaminobenzoyl-functionalized multi-walled carbon nanotube and its electrocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	6
137	Synthesis and Photoluminescent Properties of Geometrically Hindered cis-Tris(diphenylaminofluorene) as Precursors to Light-Emitting Devices. <i>Molecules</i> , 2015, 20, 4635-4654.	3.8	6
138	Synthesis of Photoswitchable Magnetic Au-Fullerosome Hybrid Nanomaterials for Permittivity Enhancement Applications. <i>Molecules</i> , 2015, 20, 14746-14760.	3.8	6
139	Preparation of water-dispersible graphene using N-methylmorpholine N-oxide monohydrate and its application for the preparation of nanocomposites using PEDOT. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7105-7117.	5.5	6
140	Tunability of RF-Responses by Plasmonic Dielectric Amplification Using Branched e-Polarizable C60-Adducts on Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17711-17721.	3.1	6
141	Poly(2,5-dihydroxy-1,4-phenylene benzobisthiazole)/poly(1,4-phenylene benzobisthiazole) copolymers: Chain packing and properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 559-565.	2.1	5
142	Carboxylic Acid-Terminated Hyperbranched Polybenzoxazole and Its Polyarm-Star Block Copolymers. <i>Macromolecules</i> , 2009, 42, 1541-1553.	4.8	5
143	Unique Ultralow 18f-Trannulenyl HOMO-LUMO Energy Gap of Photostable Emerald-Green D3d-2-Methylmalonato[60]fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2296-2299.	4.6	5
144	Designing light responsive bistable arches for rapid, remotely triggered actuation. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5

#	ARTICLE	IF	CITATIONS
145	Enhanced $\pi$ - $\pi^*$ Electron Coupling in the Excited State by Combining Intramolecular Charge-Transfer States with Surface-Modified Magnetic Nanoparticles in Organic-Magnetic Nanocomposites. <i>Advanced Electronic Materials</i> , 2015, 1, 1500058.	5.1	5
146	Relaxation Dynamics and Strain Persistency of Azobenzene-Functionalized Polymers and Actuators. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700256.	3.6	5
147	New 3D-stereoconfigured cis-tris(fluorenylphenylamino)-benzene with large steric hindrance to minimize $\pi$ - $\pi$ stacking in thin-film devices. <i>Dyes and Pigments</i> , 2018, 149, 377-386.	3.7	5
148	Tuned photomechanical switching of laterally constrained arches. <i>Smart Materials and Structures</i> , 2019, 28, 075009.	3.5	5
149	Synthesis of Photoresponsive Dual NIR Two-Photon Absorptive [60]Fullerene Triads and Tetrads. <i>Molecules</i> , 2013, 18, 9603-9622.	3.8	4
150	Synthesis and Intramolecular Energy- and Electron-Transfer of 3D-Conformer Tris(fluorenyl-[60]fullerenylfluorene) Derivatives. <i>Molecules</i> , 2019, 24, 3337.	3.8	4
151	Functionalization of heterocyclic diphenylamino-based two-photon absorbing materials for microfabrication, data storage, and upconverted imaging. , 2003, , .		3
152	Broadband Two-Photon Absorption Characteristics of Highly Photostable Fluorenyl-Dicyanoethylenylated [60]Fullerene Dyads. <i>Molecules</i> , 2016, 21, 647.	3.8	3
153	Polypyrrole nanocomposite with water-dispersible graphene. <i>Macromolecular Research</i> , 2017, 25, 335-343.	2.4	3
154	Aryl ether synthesis via low-cost Ullmann coupling systems. <i>Arkivoc</i> , 2010, 2009, 255-265.	0.5	3
155	An Alternate Synthesis of 4-Hydroxybenzocyclobutene. <i>Synthetic Communications</i> , 1995, 25, 2189-2195.	2.1	2
156	Conversion of 2-(4-carboxyphenyl)-6-nitrobenzothiazole to 4-(6-amino-5-hydroxybenzothiazol-2-yl)benzoic acid by a recombinant E. coli strain. <i>Chemical Communications</i> , 2006, , 564-565.	4.1	2
157	Starburst Encapsulation of C <sub>60</sub> by Multiple Hindered Two-Photon Absorptive Diphenylaminodialkylfluorene Arms. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 1265-1273.	2.2	2
158	Synthesis and Characterization of Poly(2,5-benzimidazole) (ABPBI) Grafted Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1240, 1.	0.1	2
159	Nanodiamond/Polyimide High Temperature Dielectric Films for Energy Storage Applications. <i>Advanced Materials Research</i> , 0, 785-786, 410-416.	0.3	2
160	Mechanism of stimulated Mie scattering: Light-induced redistribution of self-assembled nanospheres of two-photon absorbing chromophore. <i>Journal of Chemical Physics</i> , 2019, 151, 104202.	3.0	2
161	Synthesis and Characterization of C60Dyads with Highly Photoactive Dicyanoethylenylated Diphenylaminofluorene Chromophore Antenna. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008, 45, 917-924.	2.2	1
162	Exciplex formation in solid state blends of charge-transfer type AFX dyes and bisimide compounds. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1

#	ARTICLE	IF	CITATIONS
163	Germanium on silicon to enable integrated photonic circuits. Proceedings of SPIE, 2013, , .	0.8	1
164	High-Temperature Dielectric Polyimide Films for Energy Storage Applications. Materials Research Society Symposia Proceedings, 2013, 1541, 72201.	0.1	1
165	The fluorescence of a chelating two-photon-absorbing dye is enhanced with the addition of transition metal ions but quenched in the presence of acid. Proceedings of SPIE, 2016, , .	0.8	1
166	3D-Conformer of Tris[60]fullerenylated cis-Tris(diphenylamino-fluorene) as Photoswitchable Charge-Polarizer on GHz-Responsive Trilayered Core-Shell Dielectric Nanoparticles. Molecules, 2018, 23, 1873.	3.8	1
167	Influence of Structural Isomerism on the Photophysical Properties of a Series of Donor-acceptor 1-Naphthalenecarbonitrile Derivatives Possessing Amine Substituents. Journal of Physical Chemistry A, 2020, 124, 2113-2122.	2.5	1
168	Reversible Enlargement of Photoswitchable Dielectric Properties by Plasmonic [60]Fullerenyl Core-shell Nanoparticles on Graphene Nanosheets. Journal of Physical Chemistry C, 2020, 124, 5759-5771.	3.1	1
169	Stimulated Rayleigh-Bragg scattering study in a two-photon absorbing liquid and a solid. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2187.	2.1	1
170	Solid-State Nmr Studies of Molecular Composites and Thermally Cured Copolymers. Materials Research Society Symposia Proceedings, 1988, 134, 569.	0.1	0
171	Thermotropic Liquid Crystalline Behavior of Dihydroxyphenylene Benzobisthiazole Derivatives. Molecular Crystals and Liquid Crystals, 1999, 327, 161-164.	0.3	0
172	New Wholly-Aromatic Thermotropic Polyesters with Controlled Flexibility. Materials Research Society Symposia Proceedings, 1999, 559, 165.	0.1	0
173	Reduction processes of aromatic-bis(squarate)s. Computational and Theoretical Chemistry, 2000, 529, 161-171.	1.5	0
174	Background host effects on the nonlinear photophysical properties of a two-photon absorbing dye. , 2005, , .		0
175	Development of novel two-photon absorbing chromophores. , 2006, , .		0
176	In-situ synthesis and thermal-electrical properties of CP2- polyimide/pristine and amine-functionalized carbon nanofiber composites. , 2009, , .		0
177	Synthesis of Highly Luminescent <i>Tris</i> -Fluorenyl Chromophores as Intermediates of Potential Nonlinear Photonic Materials. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 46, 1165-1171.	2.2	0
178	Synthesis of C60-Antenna Nanostructure-Based Fullerosome Vesicles for Ultrafast Nonlinear Photonic Applications. ECS Transactions, 2013, 45, 3-14.	0.5	0
179	Synthesis of dual NIR two-photon absorptive [60]fullerenyl multiadducts for nonlinear light-transmittance reduction application. Proceedings of SPIE, 2014, , .	0.8	0
180	Photoswitching Dielectric Properties using Plasmonic Core-Shell Hybrid of 3D C60-Conformers at GHz Frequency. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
181	Simplified Sum-Over-States Model Applied to Ultrafast Nonlinear Optical Measurements of Two-Photon Absorbing Chromophores. , 2019, , .		0