

Yoan C Simon

List of Publications by Year in descending order

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59
papers

2,603
citations

185998

28
h-index

182168

51
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63
all docs

63
docs citations

63
times ranked

3172
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-power photon upconversion through triplet-triplet annihilation in polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 20817.	6.7	378
2	Mechanochemistry with Metallo-supramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2014, 136, 10493-10498.	6.6	203
3	Mechano- and Thermoresponsive Photoluminescent Supramolecular Polymer. <i>Journal of the American Chemical Society</i> , 2017, 139, 4302-4305.	6.6	185
4	Carborane-Containing Polyfluorene: Carborane in the Main Chain. <i>Macromolecules</i> , 2009, 42, 8594-8598.	2.2	124
5	Plug-and-Play Optical Materials from Fluorescent Dyes and Macrocycles. <i>CheM</i> , 2020, 6, 1978-1997.	5.8	124
6	Biosensors Based on Porous Cellulose Nanocrystal-Poly(vinyl Alcohol) Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12674-12683.	4.0	123
7	Healable supramolecular polymer solids. <i>Progress in Polymer Science</i> , 2015, 49-50, 60-78.	11.8	112
8	Organogels for low-power light upconversion. <i>Materials Horizons</i> , 2015, 2, 120-124.	6.4	90
9	Low-power photon upconversion in organic glasses. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2837-2841.	2.7	74
10	Polyfluorene with p-carborane in the backbone. <i>Chemical Communications</i> , 2009, , 4950.	2.2	71
11	A Thermo- and Mechano-responsive Cyano-Substituted Oligo(phenylene vinylene) Derivative with Five Emissive States. <i>Chemistry - A European Journal</i> , 2016, 22, 4374-4378.	1.7	66
12	The Role of Mass and Length in the Sonochemistry of Polymers. <i>Macromolecules</i> , 2016, 49, 1630-1636.	2.2	64
13	Nanodroplet-Containing Polymers for Efficient Low-Power Light Upconversion. <i>Advanced Materials</i> , 2017, 29, 1702992.	11.1	62
14	Melt-processed polymer glasses for low-power upconversion via sensitized triplet-triplet annihilation. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5142.	2.7	58
15	Synthesis of Polyfluorenes with Pendant Silylcarboranes. <i>Macromolecules</i> , 2009, 42, 512-516.	2.2	56
16	The Role of Triplet Exciton Diffusion in Light-Upconverting Polymer Glasses. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15732-15740.	4.0	50
17	Low-Power Upconversion in Dye-Doped Polymer Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2012, 33, 498-502.	2.0	49
18	Light upconversion by triplet-triplet annihilation in diphenylanthracene-based copolymers. <i>Polymer Chemistry</i> , 2014, 5, 6898-6904.	1.9	47

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19	A mechano- and thermoresponsive luminescent cyclophane. <i>Chemical Communications</i> , 2016, 52, 5694-5697.	2.2	47
20	Visualization of Polymer Deformation Using Microcapsules Filled with Charge-Transfer Complex Precursors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21828-21834.	4.0	43
21	Azo-Containing Polymers with Degradation On-Demand Feature. <i>Macromolecules</i> , 2016, 49, 2917-2927.	2.2	41
22	Thermoresponsive low-power light upconverting polymer nanoparticles. <i>Materials Horizons</i> , 2016, 3, 602-607.	6.4	40
23	Mechanochemistry in Polymers with Supramolecular Mechanophores. <i>Topics in Current Chemistry</i> , 2015, 369, 345-375.	4.0	34
24	Amphiphilic Carborane-Containing Diblock Copolymers. <i>Macromolecules</i> , 2007, 40, 5628-5630.	2.2	32
25	Shape-Memory Polyurethane Nanocomposites with Single Layer or Bilayer Oleic Acid-Coated Fe ₃ O ₄ Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 885-892.	1.7	32
26	Enhancement of triplet-sensitized upconversion in rigid polymers <i>via</i> singlet exciton sink approach. <i>Chemical Science</i> , 2018, 9, 6796-6802.	3.7	30
27	Mechanoresponsive, Luminescent Polymer Blends Based on an Excimer-Forming Telechelic Macromolecule. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800705.	2.0	30
28	Mechanochemical Fluorescence Switching in Polymers Containing Dithiomaleimide Moieties. <i>ACS Macro Letters</i> , 2018, 7, 1099-1104.	2.3	28
29	Glassy poly(methacrylate) terpolymers with covalently attached emitters and sensitizers for low-power light upconversion. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1629-1639.	2.5	27
30	Functional Iron Oxide Nanoparticles as Reversible Crosslinks for Magnetically Addressable Shape-Memory Polymers. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 398-404.	1.1	26
31	Light-responsive azo-containing organogels. <i>Soft Matter</i> , 2017, 13, 4017-4023.	1.2	21
32	Thiol-ene click chemistry: a modular approach to solid-state triplet-triplet annihilation upconversion. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3876-3881.	2.7	21
33	Polymersomes: Breaking the Glass Ceiling?. <i>Small</i> , 2018, 14, e1802734.	5.2	20
34	Ring-opening metathesis copolymerization of cyclooctene and a carborane-containing oxanorbornene. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2557-2563.	2.5	17
35	Forcing single-chain nanoparticle collapse through hydrophobic solvent interactions in comb copolymers. <i>Polymer Chemistry</i> , 2020, 11, 292-297.	1.9	16
36	Synthesis of poly(sulfonate ester)s by ADMET polymerization. <i>RSC Advances</i> , 2014, 4, 53967-53974.	1.7	15

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37	Functional Polymers Through Mechanochemistry. <i>Chimia</i> , 2019, 73, 7.	0.3	13
38	Single-Component Upconverting Polymeric Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2016, 37, 826-832.	2.0	12
39	Deformation-Induced Color Changes in Melt-Processed Polyamide 12 Blends. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 549-554.	1.7	12
40	Solid-state sensors based on Eu ³⁺ -containing supramolecular polymers with luminescence colour switching capability. <i>Dalton Transactions</i> , 2018, 47, 14184-14188.	1.6	12
41	Bent out of shape: towards non-spherical polymersome morphologies. <i>Polymer International</i> , 2021, 70, 951-957.	1.6	12
42	Silylcarborane Acrylate Nanoimprint Lithography Resists. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1887-1892.	4.0	10
43	Low-Power Upconversion in Poly(Mannitol-Sebacate) Networks with Tethered Diphenylanthracene and Palladium Porphyrin. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 898-903.	1.9	10
44	Framing upconversion materials. <i>Nature Materials</i> , 2015, 14, 864-865.	13.3	10
45	Fabrication of single-chain nanoparticles through the dimerization of pendant anthracene groups via photochemical upconversion. <i>Dalton Transactions</i> , 2018, 47, 8663-8669.	1.6	9
46	Virtual Issue: Next-Generation Smart Materials. <i>Macromolecules</i> , 2019, 52, 6339-6341.	2.2	8
47	Modeling ultrasound-induced molecular weight decrease of polymers with multiple scissile azo-mechanophores. <i>Polymer Chemistry</i> , 2021, 12, 4093-4103.	1.9	8
48	Ring opening metathesis polymerization of triazole-bearing cyclobutenes: Diblock copolymer synthesis and evaluation of the effect of side group size on polymerization kinetics. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1929-1939.	2.5	7
49	Shape-transformation of polymersomes from glassy and crosslinkable ABA triblock copolymers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8914-8924.	2.9	7
50	Optical Upconversion in Polymeric Nanoparticles. <i>Chimia</i> , 2012, 66, 878-878.	0.3	5
51	Nonconventional Elements in Block Copolymers. <i>ACS Symposium Series</i> , 2011, , 53-70.	0.5	3
52	Enhanced photodegradation of TiO ₂ -containing poly(ϵ -caprolactone)/poly(lactic acid) blends. <i>Journal of Polymer Science</i> , 2021, 59, 2479.	2.0	3
53	Mechanically Triggered Responses of Metallo-supramolecular Polymers. <i>Chimia</i> , 2014, 68, 666-666.	0.3	2
54	Reversible hetero-Diels-Alder amine hardener as drop-in replacement for healable epoxy coatings. <i>Polymer Chemistry</i> , 2022, 13, 741-747.	1.9	2

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55	Glassy Polymersomes: Polymersomes: Breaking the Glass Ceiling? (Small 46/2018). Small, 2018, 14, 1870216.	5.2	1
56	The stability of aliphatic azo linkages influences the controlled scission of degradable polyurethanes. Journal of Polymer Science, 0, , .	2.0	1
57	Blue-Emitting p-Carborane Linked Polyfluorene. Synfacts, 2009, 2009, 1099-1099.	0.0	0
58	Inorganic-Organic Hybrid Copolymers derived from Silsesquioxanes or Carborane Building Blocks. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	0
59	The 8th Young Faculty Meeting "An Active Crowd Attuned to Modern Challenges. Chimia, 2015, 69, 475.	0.3	0