

# Kotaro Koike

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

371  
citations

840776

11  
h-index

794594

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in low-loss and high-bandwidth plastic optical fibers. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 2-17.	2.1	74
2	High glass transition temperatures of poly(methyl methacrylate) prepared by free radical initiators. Journal of Polymer Science Part A, 2009, 47, 315-317.	2.3	49
3	Design of Low-Loss Graded-Index Plastic Optical Fiber Based on Partially Fluorinated Methacrylate Polymer. Journal of Lightwave Technology, 2009, 27, 41-46.	4.6	27
4	High-Bandwidth Graded-Index Plastic Optical Fiber With Low-Attenuation, High-Bending Ability, and High-Thermal Stability for Home-Networks. Journal of Lightwave Technology, 2011, 29, 1620-1626.	4.6	24
5	Optical and thermal properties of methyl methacrylate and pentafluorophenyl methacrylate copolymer: Design of copolymers for low-loss optical fibers for gigabit in-home communications. Polymer, 2010, 51, 1377-1385.	3.8	23
6	Design, synthesis, and characterization of a partially chlorinated acrylic copolymer for low-loss and thermally stable graded index plastic optical fibers. Journal of Polymer Science Part A, 2009, 47, 3352-3361.	2.3	22
7	Low Loss and High Bandwidth Polystyrene-Based Graded Index Polymer Optical Fiber. Journal of Lightwave Technology, 2013, 31, 2407-2412.	4.6	22
8	New amorphous perfluoro polymers: perfluorodioxolane polymers for use as plastic optical fibers and gas separation membranes. Polymers for Advanced Technologies, 2016, 27, 33-41.	3.2	22
9	Synthesis and characterization of trifluoromethyl substituted styrene polymers and copolymers with methacrylates: Effects of trifluoromethyl substituent on styrene. Polymer, 2011, 52, 949-953.	3.8	21
10	Poly(styrene)-based graded-index plastic optical fiber for home networks. Optics Letters, 2012, 37, 1853.	3.3	14
11	Effect of dopant structure on refractive index and glass transition temperature of polymeric fiber-optic materials. Polymers for Advanced Technologies, 2014, 25, 204-210.	3.2	12
12	A highly transparent and thermally stable copolymer of 1-adamantyl methacrylate and styrene. Polymer International, 2015, 64, 188-195.	3.1	11
13	Synthesis and characterization of copolymers of perfluoro(2-methylene-4,5-dimethyl-1,3-dioxolane) and perfluoro(2-methylene-1,3-dioxolane). Journal of Fluorine Chemistry, 2013, 156, 198-202.	1.7	10
14	Effect of trifluoromethyl substituents on birefringence of polystyrene. Polymers for Advanced Technologies, 2017, 28, 994-999.	3.2	9
15	Design and synthesis of graded index plastic optical fibers by copolymeric system. Polymers for Advanced Technologies, 2008, 19, 516-520.	3.2	5
16	Effect of cladding layer glass transition temperature on thermal resistance of graded-index plastic optical fibers. Polymer Journal, 2014, 46, 823-826.	2.7	5
17	Influence of dielectric fluctuation on light-scattering properties of random copolymers in bulk. Polymer, 2014, 55, 2697-2703.	3.8	4
18	Temperature dependence of Brillouin frequency shift in polymers controlled by plasticization effect. Journal of Applied Physics, 2015, 117, .	2.5	4

#	ARTICLE	IF	CITATIONS
19	Effects of para-fluorine substituent of polystyrene on gradient-index fiber-optic properties. Optical Materials, 2015, 39, 143-147.	3.6	2
20	New insights into dopant design for graded-index plastic optical fibers for transmission at 850nm. Optical Materials, 2014, 36, 782-786.	3.6	1