

# Atsushi Kato

## List of Publications by Year in descending order

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30  
papers

472  
citations

933447

10  
h-index

713466

21  
g-index

31  
all docs

31  
docs citations

31  
times ranked

293  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ positron annihilation lifetime measurements of strained isoprene rubber filled with carbon black. <i>Radiation Physics and Chemistry</i> , 2022, 198, 110267.	2.8	5
2	Nanofiller Dispersion in Rubber as Revealed by 3D-TEM. <i>Springer Series on Polymer and Composite Materials</i> , 2020, , 57-81.	0.7	0
3	Reinforcing Mechanism of Rubber by Nanofiller. <i>Springer Series on Polymer and Composite Materials</i> , 2020, , 83-104.	0.7	0
4	Tensile Behavior and Phase Separation Structure of Aliphatic Polyketone/Polyamide 6 Polymer Alloy. <i>Seikei-Kakou</i> , 2019, 31, 243-250.	0.0	0
5	Reinforcement Mechanism of Carbon Black (CB) in Natural Rubber Vulcanizates: Relationship Between CB Aggregate and Network Structure and Viscoelastic Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 1418-1429.	1.9	33
6	Study on microfracture mechanism of short glass fiber reinforced polycarbonate by using acoustic emission. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45664.	2.6	4
7	Recent Development of Rubber Science. , 2018, , 125-154.		1
8	Materials Science of Rubber. , 2018, , 55-124.		0
9	Network-Like Structure of Lignin in Natural Rubber Matrix to Form High Performance Elastomeric Bio-composite. <i>Journal of Fiber Science and Technology</i> , 2016, 72, 160-165.	0.4	18
10	Carbon Black Network Structure in Natural Rubber Vulcanizates. <i>Seikei-Kakou</i> , 2016, 28, 210-213.	0.0	1
11	Structure and Property Relationship in Nano-filler Loaded Cross-linked Rubbers. <i>Nippon Gomu Kyokaishi</i> , 2015, 88, 3-10.	0.0	7
12	Structure and Property Relationship in Nano-filler Loaded Cross-linked Rubbers. <i>Nippon Gomu Kyokaishi</i> , 2014, 87, 252-258.	0.0	7
13	Structure and Property Relationship in Nano-filler Loaded Cross-linked Rubbers. <i>Nippon Gomu Kyokaishi</i> , 2014, 87, 447-453.	0.0	3
14	Study on Polymeric Nano-Composites by 3D-TEM and Related Techniques. , 2014, , 139-193.		7
15	A new approach to visualizing the carbon black/natural rubber interaction layer in carbon black-filled natural rubber vulcanizates and to elucidating the dependence of mechanical properties on quantitative parameters. <i>Colloid and Polymer Science</i> , 2013, 291, 2101-2110.	2.1	31
16	Viscoelastic properties and filler dispersion in carbon black-filled and silica-filled cross-linked natural rubbers. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2594-2602.	2.6	10
17	Structural changes in the carbon black network in carbon-black-filled styrene-butadiene rubber samples cured with a two-step process. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2498-2507.	2.6	9
18	Thermal destruction of carbon black network structure in natural rubber vulcanizate. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1300-1315.	2.6	10

#	ARTICLE	IF	CITATIONS
19	Phase separation and mechanical properties of polyketone/polyamide polymer alloys. Journal of Applied Polymer Science, 2010, 116, 3056-3069.	2.6	23
20	High Impact Properties of Polyketone/Polyamide-6 Alloys Induced by Characteristic Morphology and Water Absorption. Macromolecules, 2009, 42, 9506-9514.	4.8	29
21	Influence of Water Absorption on High-Impact Properties of Polyketone/Polyamide Polymer Alloys. Kobunshi Ronbunshu, 2009, 66, 570-576.	0.2	5
22	Nano Structure of Polyketon/Polyamide Polymer Alloy. Kobunshi Ronbunshu, 2009, 66, 577-584.	0.2	7
23	Visualization of nanostructure of soft matter by 3D-TEM: Nanoparticles in a natural rubber matrix. Progress in Polymer Science, 2008, 33, 979-997.	24.7	91
24	Optical transparency and silica network structure in cross-linked natural rubber as revealed by spectroscopic and three-dimensional transmission electron microscopy techniques. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1602.	2.1	34
25	Visualization of Nano-Filler Dispersion and Mophology in Rubbery Matrix by 3D-TEM. , 2008, , 543-552.		10
26	Nanostructure in Traditional Composites of Natural Rubber and Reinforcing Silica. Rubber Chemistry and Technology, 2007, 80, 690-700.	1.2	27
27	Nano-Structural Elucidation in Carbon Black Loaded NR Vulcanizate by 3D-TEM and In Situ WAXD Measurements. Rubber Chemistry and Technology, 2007, 80, 251-264.	1.2	30
28	Mechanical Properties of EPDM-blended Polypropylene Filled with CaCO <sub>3</sub> -talc Hybrid Particles. Journal of the Adhesion Society of Japan, 2007, 43, 343-349.	0.0	1
29	Three-Dimensional Electron Transmission Microscopy. Kobunshi, 2006, 55, 616-619.	0.0	6
30	Three-Dimensional Morphology of Carbon Black in NR Vulcanizates as Revealed by 3D-Tem and Dielectric Measurements. Rubber Chemistry and Technology, 2006, 79, 653-673.	1.2	40