

Atsushi Kato

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

472
citations

933447

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h-index

713466

21
g-index

31
all docs

31
docs citations

31
times ranked

293
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Visualization of nanostructure of soft matter by 3D-TEM: Nanoparticles in a natural rubber matrix. <i>Progress in Polymer Science</i> , 2008, 33, 979-997. | 24.7 | 91 |
| 2 | Three-Dimensional Morphology of Carbon Black in NR Vulcanizates as Revealed by 3D-Tem and Dielectric Measurements. <i>Rubber Chemistry and Technology</i> , 2006, 79, 653-673. | 1.2 | 40 |
| 3 | Optical transparency and silica network structure in cross-linked natural rubber as revealed by spectroscopic and three-dimensional transmission electron microscopy techniques. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 1602. | 2.1 | 34 |
| 4 | 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 |
| 5 | 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 |
| 6 | Nano-Structural Elucidation in Carbon Black Loaded NR Vulcanizate by 3D-TEM and In Situ WAXD Measurements. <i>Rubber Chemistry and Technology</i> , 2007, 80, 251-264. | 1.2 | 30 |
| 7 | High Impact Properties of Polyketone/Polyamide-6 Alloys Induced by Characteristic Morphology and Water Absorption. <i>Macromolecules</i> , 2009, 42, 9506-9514. | 4.8 | 29 |
| 8 | Nanostructure in Traditional Composites of Natural Rubber and Reinforcing Silica. <i>Rubber Chemistry and Technology</i> , 2007, 80, 690-700. | 1.2 | 27 |
| 9 | Phase separation and mechanical properties of polyketone/polyamide polymer alloys. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3056-3069. | 2.6 | 23 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Visualization of Nano-Filler Dispersion and Mophology in Rubbery Matrix by 3D-TEM. , 2008, , 543-552. | | 10 |
| 14 | 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 |
| 15 | Nano Structure of Polyketon/Polyamide Polymer Alloy. <i>Kobunshi Ronbunshu</i> , 2009, 66, 577-584. | 0.2 | 7 |
| 16 | Structure and Property Relationship in Nano-filler Loaded Cross-linked Rubbers. <i>Nippon Gomu Kyokaishi</i> , 2014, 87, 252-258. | 0.0 | 7 |
| 17 | Structure and Property Relationship in Nano-filler Loaded Cross-linked Rubbers. <i>Nippon Gomu Kyokaishi</i> , 2015, 88, 3-10. | 0.0 | 7 |
| 18 | Study on Polymeric Nano-Composites by 3D-TEM and Related Techniques. , 2014, , 139-193. | | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Three-Dimensional Electron Transmission Microscopy. Kobunshi, 2006, 55, 616-619. | 0.0 | 6 |
| 20 | Influence of Water Absorption on High-Impact Properties of Polyketone/Polyamide Polymer Alloys. Kobunshi Ronbunshu, 2009, 66, 570-576. | 0.2 | 5 |
| 21 | In-situ positron annihilation lifetime measurements of strained isoprene rubber filled with carbon black. Radiation Physics and Chemistry, 2022, 198, 110267. | 2.8 | 5 |
| 22 | Study on microfracture mechanism of short glass fiber reinforced polycarbonate by using acoustic emission. Journal of Applied Polymer Science, 2018, 135, 45664. | 2.6 | 4 |
| 23 | Structure and Property Relationship in Nano-filler Loaded Cross-linked Rubbers. Nippon Gomu Kyokaishi, 2014, 87, 447-453. | 0.0 | 3 |
| 24 | Mechanical Properties of EPDM-blended Polypropylene Filled with CaCO ₃ -talc Hybrid Particles. Journal of the Adhesion Society of Japan, 2007, 43, 343-349. | 0.0 | 1 |
| 25 | Carbon Black Network Structure in Natural Rubber Vulcanizates. Seikei-Kakou, 2016, 28, 210-213. | 0.0 | 1 |
| 26 | Recent Development of Rubber Science. , 2018, , 125-154. | | 1 |
| 27 | Materials Science of Rubber. , 2018, , 55-124. | | 0 |
| 28 | Tensile Behavior and Phase Separation Structure of Aliphatic Polyketone/Polyamide 6 Polymer Alloy. Seikei-Kakou, 2019, 31, 243-250. | 0.0 | 0 |
| 29 | Nanofiller Dispersion in Rubber as Revealed by 3D-TEM. Springer Series on Polymer and Composite Materials, 2020, , 57-81. | 0.7 | 0 |
| 30 | Reinforcing Mechanism of Rubber by Nanofiller. Springer Series on Polymer and Composite Materials, 2020, , 83-104. | 0.7 | 0 |