

Kouhei Ichiyanagi

List of Publications by Year in descending order

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67
papers

1,218
citations

430874

18
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377865

34
g-index

70
all docs

70
docs citations

70
times ranked

1691
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique atomic structure of metals at the moment of fracture induced by laser shock. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142199.	5.6	1
2	Crystalline-state chemiluminescence reactions of two-fluorophore-linked adamantylideneadamantane 1,2-dioxetane isomers accompanied by solid-to-solid phase transitions. <i>CrystEngComm</i> , 2022, 24, 3332-3337.	2.6	3
3	Phase transition and melting in zircon by nanosecond shock loading. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.8	5
4	Time-Resolved Observation of Phase Transformation in Feâ€“C System during Cooling via X-ray Absorption Spectroscopy. <i>Materials Transactions</i> , 2021, 62, 155-160.	1.2	3
5	Time-Resolved X-ray Crystallography Using Synchrotron Radiation. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 24-30.	0.0	0
6	Diffraction X-ray blinking measurements of interleukin 15 receptors in the inner/outer membrane of living NK cells. <i>Biochemical and Biophysical Research Communications</i> , 2021, 556, 53-58.	2.1	8
7	Visualization of transformation toughening of zirconia ceramics during dynamic fracture. <i>Applied Physics Letters</i> , 2021, 118, 231901.	3.3	1
8	Photoinduced anisotropic distortion as the electron trapping site of tungsten trioxide by ultrafast W L₁-edge X-ray absorption spectroscopy with full potential multiple scattering calculations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2615-2621.	2.8	15
9	<i>In Situ</i> Observation of the Phase Transition Behavior of Shocked Baddeleyite. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089592.	4.0	5
10	Mapping the emergence of molecular vibrations mediating bond formation. <i>Nature</i> , 2020, 582, 520-524.	27.8	55
11	Direct observation of ligand migration within human hemoglobin at work. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4741-4748.	7.1	13
12	X-ray-based living-cell motion analysis of individual serotonin receptors. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 306-313.	2.1	17
13	Isomeric difference in the crystalline-state chemiluminescence property of an adamantylideneadamantane 1,2-dioxetane with a phthalimide chromophore. <i>Chemical Communications</i> , 2020, 56, 3369-3372.	4.1	8
14	Development of shock-dynamics study with synchrotron-based time-resolved X-ray diffraction using an Nd:glass laser system. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 371-377.	2.4	5
15	Selective Reduction Mechanism of Graphene Oxide Driven by the Photon Mode <i>versus</i> the Thermal Mode. <i>ACS Nano</i> , 2019, 13, 10103-10112.	14.6	30
16	Microstructural deformation process of shock-compressed polycrystalline aluminum. <i>Scientific Reports</i> , 2019, 9, 7604.	3.3	27
17	In Vivo X-Ray Monitoring of Dynamics between Interleukin 2 and Interleukin 15 on NK Cells. <i>Biophysical Journal</i> , 2018, 114, 71a.	0.5	0
18	X-ray observations of single bio-supramolecular photochirogenesis. <i>Biophysical Chemistry</i> , 2018, 242, 1-5.	2.8	3

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19	Capturing local structure modulations of photoexcited BiVO ₄ by ultrafast transient XAFS. <i>Chemical Communications</i> , 2017, 53, 7314-7317.	4.1	18
20	High pressure band gap modification of LiCaAlF ₆ . <i>Applied Physics Letters</i> , 2017, 110, .	3.3	15
21	Structural Dynamics at High-Strain Rate in Solid Studied with Time-Resolved X-Ray Diffraction Using Synchrotron Source. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2017, 27, 119-128.	0.0	0
22	Structural Dynamics of Materials under Shock Compression Investigated with Synchrotron Radiation. <i>Metals</i> , 2016, 6, 17.	2.3	19
23	Dynamics of Photoelectrons and Structural Changes of Tungsten Trioxide Observed by Femtosecond Transient XAFS. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1364-1367.	13.8	42
24	Time-resolved X-ray Tracking of Expansion and Compression Dynamics in Supersaturating Ion-Networks. <i>Scientific Reports</i> , 2016, 5, 17647.	3.3	14
25	Time-resolved observation of structural change of copper induced by laser shock using synchrotron radiation with dispersive XAFS. <i>High Pressure Research</i> , 2016, 36, 471-478.	1.2	11
26	Anomalous Stiffness Changes of Tau Protein in X-ray Single Molecule Observations. <i>Biophysical Journal</i> , 2015, 108, 62a.	0.5	0
27	3D Dynamical Observations of Single Molecule Motions by X-Rays, Electron and Neutron. <i>Biophysical Journal</i> , 2015, 108, 620a.	0.5	0
28	Observation of High Accuracy Rotational Dynamics and Dissolution Characteristics of Gold Nanocrystals on Sodium Acetate Supersaturated Solution. <i>Hyomen Kagaku</i> , 2015, 36, 539-542.	0.0	0
29	Single Molecule Internal Motion Investigations of Multimeric Functional Proteins Using Synchrotron X-ray. <i>Seibutsu Butsuri</i> , 2015, 55, 192-195.	0.1	1
30	Single-Molecule Motions of MHC Class II Rely on Bound Peptides. <i>Biophysical Journal</i> , 2015, 108, 350-359.	0.5	16
31	Cooling dynamics of self-assembled monolayer coating for integrated gold nanocrystals on a glass substrate. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 29-33.	2.4	2
32	Laser-Induced Coherent Oscillation in Gold Nanocrystals via Picosecond Time-Resolved X-ray Diffraction. <i>Hyomen Kagaku</i> , 2014, 35, 371-376.	0.0	0
33	Structural Fluctuations and Aggregations of Tau Proteins from X-Ray Single Molecule Observations. <i>Biophysical Journal</i> , 2014, 106, 58a.	0.5	0
34	Single Molecule Motion Maps of Open and Desensitization States of Nicotinic Acetylcholine Receptors. <i>Biophysical Journal</i> , 2014, 106, 629a.	0.5	0
35	Real Time Ligand-Induced Motion Mappings of AChBP and nAChR Using X-ray Single Molecule Tracking. <i>Scientific Reports</i> , 2014, 4, 6384.	3.3	39
36	Cooperative Motion of a Multi-Subunit Protein Visualized by X-Ray Single Molecule Tracking. <i>Biophysical Journal</i> , 2013, 104, 572a.	0.5	0

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37	Structural Dynamics of Polycrystals under Shock Compression Observed via Nanosecond Time-resolved X-ray Diffraction. Materials Research Society Symposia Proceedings, 2013, 1528, 1.	0.1	0
38	Solvent-Dependent Molecular Structure of Ionic Species Directly Measured by Ultrafast X-Ray Solution Scattering. Physical Review Letters, 2013, 110, 165505.	7.8	44
39	Complex structural dynamics of bismuth under laser-driven compression. Applied Physics Letters, 2013, 103, .	3.3	21
40	Diffraction X-ray tracking for monitoring intramolecular motion in individual protein molecules using broad band X-ray. Review of Scientific Instruments, 2013, 84, 103701.	1.3	8
41	Tracking 3D Picometer-Scale Motions of Single Nanoparticles with High-Energy Electron Probes. Scientific Reports, 2013, 3, 2201.	3.3	8
42	ATP Dependent Rotational Motion of Group II Chaperonin Observed by X-ray Single Molecule Tracking. PLoS ONE, 2013, 8, e64176.	2.5	35
43	Shock-induced intermediate-range structural change of SiO ₂ glass in the nonlinear elastic region. Applied Physics Letters, 2012, 101, .	3.3	10
44	Reversible phase transition in laser-shocked 3Y-TZP ceramics observed via nanosecond time-resolved x-ray diffraction. Journal of Applied Physics, 2012, 111, .	2.5	15
45	Laser Pump Diffracted-X-Ray-Tracking (Laser-Pump DXT) for Single Molecule Measurement of Rotational Motion in Reaction with Photodissociated ATP. Biophysical Journal, 2012, 102, 392a.	0.5	0
46	Chaperonin-Ring's Twist is Critical for Folding Activity of Group II Chaperonin. Biophysical Journal, 2012, 102, 59a-60a.	0.5	0
47	Observation of Single Molecular Motion About Biological Supramolecular Enantiodifferentiating Photoreaction using Diffracted X-Ray Tracking. Biophysical Journal, 2012, 102, 65a.	0.5	0
48	Observations of MHC Structural Changes Elicited from Antigenic Peptide using Diffracted X-Ray Tracking (DXT). Biophysical Journal, 2012, 102, 718a.	0.5	0
49	Atto-Newton X-Ray Radiation Pressure Force on Gold Nanocrystal in Aqueous Solution. Biophysical Journal, 2012, 102, 392a-393a.	0.5	0
50	Direct Observation of Torsional Motion of Group II Chaperonin. Biophysical Journal, 2011, 100, 390a.	0.5	0
51	Transient photoinduced "hidden" phase in Fe_3O_4 magnetite. Nature Materials, 2011, 10, 101-105.	27.5	216
52	Laser-induced picosecond lattice oscillations in submicron gold crystals. Physical Review B, 2011, 84, .	3.2	11
53	Direct Probing of Spin State Dynamics Coupled with Electronic and Structural Modifications by Picosecond Time-Resolved XAFS. Journal of the American Chemical Society, 2010, 132, 61-63.	13.7	75
54	Visualizing breathing motion of internal cavities in concert with ligand migration in myoglobin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2612-2616.	7.1	110

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55	Capturing molecular structural dynamics by 100â€¦ps time-resolved X-ray absorption spectroscopy. Journal of Synchrotron Radiation, 2009, 16, 110-115.	2.4	25
56	The RATIO method for time-resolved Laue crystallography. Journal of Synchrotron Radiation, 2009, 16, 226-230.	2.4	45
57	100â€¦ps time-resolved solution scattering utilizing a wide-bandwidth X-ray beam from multilayer optics. Journal of Synchrotron Radiation, 2009, 16, 391-394.	2.4	26
58	100-picosecond time-resolved X-ray absorption fine structure of Fe^{II}(1,10-phenanthroline)₃. Journal of Physics: Conference Series, 2009, 148, 012035.	0.4	1
59	Pulsed synchrotron x-ray as a tool for providing molecular movies at 100-picosecond temporal and sub-nanometer spatial resolution. Journal of Physics: Conference Series, 2009, 148, 012044.	0.4	0
60	100ps time-resolved X-ray diffraction study on Nd_{0.5}Sr_{0.5}MnO₃ thin film. Journal of Physics: Conference Series, 2009, 148, 012020.	0.4	0
61	Development of 100ps Time-resolved XAS and Observation of Spin Crossover Dynamics in Solution. Nihon Kessho Gakkaishi, 2009, 51, 258-264.	0.0	0
62	Nanosecond Time-Resolved Laser-Induced Fluorescence Spectra of Rhodamine 6G Solution in Ethanol under Shock Loading of up to 3.5 GPa. Japanese Journal of Applied Physics, 2007, 46, 6773-6775.	1.5	2
63	Shock-induced lattice deformation of CdS single crystal by nanosecond time-resolved Laue diffraction. Applied Physics Letters, 2007, 91, .	3.3	33
64	Developing 100â€¦ps-resolved X-ray structural analysis capabilities on beamline NW14A at the Photon Factory Advanced Ring. Journal of Synchrotron Radiation, 2007, 14, 313-319.	2.4	93
65	Structural Investigation of the Photoinduced Spin Transition in the [Fe(PM-BiA)₂(NCS)₂] Compound. Solid State Phenomena, 2006, 112, 81-88.	0.3	1
66	Nature and mechanism of the photoinduced spin transition in [Fe(PMâˆ³BiA)2(NCS)2]. Physical Review B, 2006, 73, .	3.2	59
67	Laser-Shock Compression of Rhodamine 6G Dye in Ethanol Solution Studied by Time-Resolved Fluorescence Spectroscopy. Journal of Plasma and Fusion Research, 2004, 80, 472-475.	0.4	2