

# Hisashi Hayashi

## List of Publications by Year in descending order

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79  
papers

1,518  
citations

430843

18  
h-index

345203

36  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1098  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The complete optical spectrum of liquid water measured by inelastic x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6264-6266.   | 7.1 | 177       |
| 2  | Temperature dependence of the concentration fluctuation, the Kirkwood-Buff parameters, and the correlation length of tert-butyl alcohol and water mixtures studied by small-angle x-ray scattering. The Journal of Physical Chemistry, 1989, 93, 6559-6565. | 2.9 | 145       |
| 3  | Small-angle x-ray scattering study of fluctuations in 1-propanol-water and 2-propanol-water systems. The Journal of Physical Chemistry, 1990, 94, 8334-8338.  | 2.9 | 119       |
| 4  | Bethe Surface of Liquid Water Determined by Inelastic X-Ray Scattering Spectroscopy and Electron Correlation Effects. Bulletin of the Chemical Society of Japan, 1997, 70, 719-726.   | 3.2 | 75        |
| 5  | Optical spectra of liquid water in vacuum uv region by means of inelastic x-ray scattering spectroscopy. Journal of Chemical Physics, 1998, 108, 823-825.   | 3.0 | 68        |
| 6  | Lifetime-broadening-suppressed/free XANES spectroscopy by high-resolution resonant inelastic x-ray scattering. Physical Review B, 2003, 68, .   | 3.2 | 52        |
| 7  | A multi-crystal spectrometer with a two-dimensional position-sensitive detector and contour maps of resonant $K\alpha_2$ emission in Mn compounds. Journal of Electron Spectroscopy and Related Phenomena, 2004, 136, 191-197.                              | 1.7 | 48        |
| 8  | Anisotropy of hexagonal boron nitride core absorption spectra by x-ray Raman spectroscopy. Applied Physics Letters, 1996, 69, 1370-1372.  | 3.3 | 45        |
| 9  | Lifetime-broadening removed X-ray absorption near edge structure by resonant inelastic X-ray scattering spectroscopy. Chemical Physics Letters, 2003, 371, 125-130.   | 2.6 | 39        |
| 10 | Static structure factor and electron correlation effects studied by inelastic x-ray scattering spectroscopy. Journal of Chemical Physics, 1998, 108, 4545-4553.   | 3.0 | 38        |
| 11 | Lifetime-Broadening-Suppressed Selective XAFS Spectroscopy. Analytical Sciences, 2008, 24, 15-23.   | 1.6 | 38        |
| 12 | Mixing State of 1-Propanol Aqueous Solutions Studied by Small-Angle X-Ray Scattering: A New Parameter Reflecting the Shape of SAXS Curve. Bulletin of the Chemical Society of Japan, 1992, 65, 155-159.   | 3.2 | 36        |
| 13 | Accurate Measurements of Dielectric and Optical Functions of Liquid Water and Liquid Benzene in the VUV Region ( $1 \leq 100$ eV) Using Small-Angle Inelastic X-ray Scattering. Journal of Physical Chemistry B, 2015, 119, 5609-5623.                      | 2.6 | 36        |
| 14 | Hidden electronic state of CuO revealed by resonant inelastic x-ray scattering. Physical Review B, 2002, 66, .  | 3.2 | 31        |
| 15 | Inelastic X-ray scattering study on molecular liquids. Journal of Physics and Chemistry of Solids, 2000, 61, 407-409.   | 4.0 | 29        |
| 16 | Quadrupole transition in the $D_{3/2}$ edge observed by lifetime-broadening-suppressed XANES spectroscopy. Physical Review B, 2004, 70, .   | 3.2 | 24        |
| 17 | X-ray Spectrometry. Analytical Chemistry, 2008, 80, 4421-4454.  | 6.5 | 23        |
| 18 | Easy derivation of the formula relating the fluctuations of a binary system to the X-ray scattering intensity extrapolated to $s = 0$ . Journal of Applied Crystallography, 1990, 23, 134-135.  | 4.5 | 21        |

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|----|--|-----|-----------|
| 19 | X-ray spectroscopic analysis of Liesegang patterns in Mn <sup>2+</sup> -Fe-based Prussian blue analogs. Journal of Analytical Atomic Spectrometry, 2016, 31, 1658-1672.  | 3.0 | 19        |
| 20 | A cartography of K <sup>2</sup> resonant inelastic X-ray scattering for lifetime-broadening-suppressed spin-selected XANES of $\text{Fe}^{2+}$ -Fe <sub>2</sub> O <sub>3</sub> . Journal of Electron Spectroscopy and Related Phenomena, 2008, 168, 34-39. | 1.7 | 18        |
| 21 | Probe for Spin- and Valence-Selective X-ray Absorption Fine Structure Spectroscopy: Eu <sup>L<sub>3</sub></sup> Emission. Analytical Chemistry, 2009, 81, 1522-1528.   | 6.5 | 18        |
| 22 | Chemical Effects of Ce <sup>L<sub>3</sub></sup> Emission Spectra for Ce Compounds. Analytical Sciences, 2010, 26, 885-889.   | 1.6 | 17        |
| 23 | Extended spin-polarized x-ray absorption near-edge spectra of MnO. Physical Review B, 2004, 70, .  | 3.2 | 15        |
| 24 | Oxidation state sensitivity of Eu <sup>L<sub>3</sub></sup> emission and its applications to oxidation state selective EXAFS spectroscopy of EuPd <sub>2</sub> Si <sub>2</sub> . Journal of Analytical Atomic Spectrometry, 2011, 26, 1858.                 | 3.0 | 15        |
| 25 | SIM $\epsilon$ RIXS: a program to simulate resonant inelastic X-ray scattering. X-Ray Spectrometry, 2011, 40, 24-30.   | 1.4 | 15        |
| 26 | Magnetic-Field-Induced Painting-Out of Precipitation Bands of Mn <sup>2+</sup> -Fe-Based Prussian Blue Analogues in Water $\epsilon$ Glass Gels. ACS Omega, 2018, 3, 4494-4501.  | 3.5 | 15        |
| 27 | X-Ray Resonant Raman Spectra of Several Copper Compounds. Journal of the Physical Society of Japan, 1994, 63, 1713-1720.   | 1.6 | 14        |
| 28 | Bethe surfaces and X-ray incoherent scattering factor for H <sub>2</sub> O studied by electron energy loss spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 107-114.   | 1.7 | 14        |
| 29 | SAXS Curve Shape Analysis of 2-Butoxyethanol Aqueous Solutions. Bulletin of the Chemical Society of Japan, 1992, 65, 600-602.  | 3.2 | 13        |
| 30 | Selective XANES spectroscopy from RIXS contour maps. Journal of Physics and Chemistry of Solids, 2005, 66, 2168-2172.  | 4.0 | 13        |
| 31 | K <sup>2</sup> Detected High-Resolution XANES of Fe <sup>I</sup> and Fe <sup>III</sup> Models of the 2-His-1-Carboxylate Motif: Analysis of the Carboxylate Binding Mode. European Journal of Inorganic Chemistry, 2012, 2012, 1589-1597.                  | 2.0 | 13        |
| 32 | Gel-State Dependencies of Brown Patterns of Mn <sup>2+</sup> -Fe-Based Prussian Blue Analogues Studied by Combined X-ray Spectroscopies. Bulletin of the Chemical Society of Japan, 2017, 90, 807-819.   | 3.2 | 13        |
| 33 | Chemical effects of high $\epsilon$ resolution Yb <sup>L<sub>3</sub></sup> emission spectra: a possible probe for chemical analysis. X-Ray Spectrometry, 2013, 42, 450-455.  | 1.4 | 12        |
| 34 | NO-induced morphology changes by XAFS study. Physica B: Condensed Matter, 1995, 208-209, 683-684.  | 2.7 | 11        |
| 35 | CHEMICAL APPLICATIONS OF INELASTIC X-RAY SCATTERING. Advanced Series in Physical Chemistry, 2002, , 850-908.   | 1.5 | 11        |
| 36 | Fine structure in the quadrupolar transition of the Ho <sup>L<sub>3</sub></sup> pre-edge observed by lifetime-broadening-suppressed XANES spectroscopy. Physical Review B, 2005, 72, .   | 3.2 | 11        |

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|----|--|-----|-----------|
| 37 | Local spin ordering in the antiferromagnetic as well as paramagnetic $\text{LaMnO}_3$ phase revealed by polarized spin-selected $L_{2,3}$ absorption spectra. <i>Physical Review B</i> , 2006, 73, .   | 3.2 | 11        |
| 38 | An XAFS study of Cs adsorption by the precipitation bands of Mn-Fe-based Prussian blue analogues spontaneously formed in agarose gel. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22553-22562.  | 2.8 | 11        |
| 39 | Plasmon dispersion in metallic lithium-ammonia solutions. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 120, 113-119.  | 1.7 | 10        |
| 40 | A new method for determining the valence of lanthanide compounds: $L_{2,3}$ emission spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 373.   | 3.0 | 10        |
| 41 | A combined X-ray spectroscopic study on the multicolored pattern formation in gels containing $\text{FeCl}_3$ and $\text{K}_3[\text{Fe}(\text{CN})_6]$ . <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 912-923.   | 3.0 | 10        |
| 42 | Lifetime-Broadening-Suppressed X-ray Absorption Spectrum of $\text{YbAlB}_4$ Deduced from $\text{Yb } 3d$ Resonant X-ray Emission Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 014711.  | 1.6 | 10        |
| 43 | Spontaneous precipitation pattern formation by crystallites of Mn-Fe-based Prussian blue analogues in agarose gel. <i>RSC Advances</i> , 2019, 9, 36240-36247.   | 3.6 | 10        |
| 44 | Lifetime-broadening-suppressed polarized Cu K X-ray absorption near edge structure of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ measured by resonant inelastic X-ray scattering spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 136, 199-204. | 1.7 | 9         |
| 45 | In situ XRF analysis of Cs adsorption by the precipitation bands of Prussian blue analogues formed in agarose gels. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 979-985.  | 3.0 | 9         |
| 46 | Radiative Auger spectra of several K and Ca compounds. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 37-46.  | 1.8 | 8         |
| 47 | Resonant inelastic x-ray scattering of $\text{CeB}_6$ at the Ce $L_{1-}$ and $L_{3-}$ edges. <i>Journal of Chemical Physics</i> , 2012, 136, 194501.   | 3.0 | 8         |
| 48 | Low-Cost, High-Performance Sample Cell for X-Ray Spectroscopy of Solutions and Gels Made from Plastic Straw. <i>Analytical Sciences</i> , 2019, 35, 651-357.   | 1.6 | 8         |
| 49 | Selective XAFS Studies of Functional Materials by Resonant Inelastic X-Ray Scattering. <i>AIP Conference Proceedings</i> , 2007, , .   | 0.4 | 7         |
| 50 | Interpretation of correlation length by small-angle X-ray scattering experiments on fluids near critical point. <i>Chemical Physics Letters</i> , 2009, 471, 249-252.  | 2.6 | 7         |
| 51 | <i>In vivo</i> time-resolved X-ray fluorescence mapping measurements of <i>Egeria densa</i> immersed in $\text{Cr(VI)}$ aqueous solution. <i>X-Ray Spectrometry</i> , 2014, 43, 292-297.   | 1.4 | 7         |
| 52 | X-ray spectroscopic analysis of stochastic, periodic precipitation in Co-Fe-Based Prussian blue analogues. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 957-966.   | 3.0 | 7         |
| 53 | Cs sorption of Mn-Fe based Prussian blue analogs with periodic precipitation banding in agarose gel. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 9374-9383.   | 2.8 | 7         |
| 54 | Construction of a Point-Focusing Small-Angle X-Ray Scattering Diffractometer for the Study of Fluctuations in Solutions. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 870-874.   | 1.5 | 5         |

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|----|--|-----|-----------|
| 55 | LifetimeBroadeningRemoved XANES Spectroscopy by HighResolution Resonant Inelastic XRay Scattering. <i>Physica Scripta</i> , 2005, , 1094.  | 2.5 | 5         |
| 56 | Polarized lifetime-broadening-suppressed XANES study of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . <i>Radiation Physics and Chemistry</i> , 2006, 75, 1586-1590.   | 2.8 | 5         |
| 57 | An X-ray Spectroscopic Study of Co <sup>2+</sup> -Fe-Based Prussian Blue Analog Gels. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 1510-1517.  | 3.2 | 5         |
| 58 | Construction of a Small-Angle X-Ray Scattering Diffractometer for the Study of Fluctuations in Solutions. <i>Japanese Journal of Applied Physics</i> , 1989, 28, 1501-1503.                                | 1.5 | 4         |
| 59 | Resonant and near-resonant inelastic X-ray scattering spectroscopy and lifetime-broadening-removed XANES of CuO. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 137-140, 277-280.   | 1.7 | 4         |
| 60 | Valence-selective XAFS spectroscopy using $\text{EuL}^{34}$ emission. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012050.  | 0.4 | 4         |
| 61 | Chemical effects of $\text{L}^{34}$ emission spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 196, 58-60.  | 1.7 | 4         |
| 62 | A Reaction <sup>+</sup> Diffusion <sup>+</sup> Reaction System for Forming Periodic Precipitation Bands of Cu-Fe-Based Prussian Blue Analogues. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5000.    | 2.5 | 4         |
| 63 | Small-Angle X-Ray Scattering Study on the Growth of Metal Silicate Polymers in Solution. <i>Bulletin of the Chemical Society of Japan</i> , 1993, 66, 1024-1027.   | 3.2 | 3         |
| 64 | Momentum dependence of $\pi$ -excitations of benzene rings in condensed phases. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 933-937.                                    | 1.7 | 3         |
| 65 | Effects of Water Vapor upon Partial Oxidation of Methane over Highly-dispersed $\text{MoO}_3/\text{SiO}_2$ . <i>Chemistry Letters</i> , 1997, 26, 31-32.   | 1.3 | 2         |
| 66 | Lifetime <sup>+</sup> broadening <sup>+</sup> suppressed XANES spectra of copper complexes. <i>X-Ray Spectrometry</i> , 2008, 37, 232-236.   | 1.4 | 2         |
| 67 | Chemical effects on valence <sup>+</sup> L emissions of lanthanide compounds. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 753-755.   | 2.9 | 2         |
| 68 | Precipitation Patterns in Reaction <sup>+</sup> Diffusion <sup>+</sup> Reaction Systems of Prussian Blue and Cu <sup>2+</sup> -Fe-Based Prussian Blue Analogues. <i>Frontiers in Physics</i> , 2022, 10, . | 2.1 | 2         |
| 69 | Inelastic X-ray scattering in molecular liquids and electron correlation effects. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 1052-1054.  | 2.4 | 1         |
| 70 | Spin-polarized Mn K-edge XANES analysis of Mn oxides. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e953-e955.   | 2.3 | 1         |
| 71 | Applications of Resonant Inelastic X-ray Scattering to Chemical-State Analysis. <i>Bunseki Kagaku</i> , 2010, 59, 425-435.   | 0.2 | 1         |
| 72 | X-Ray Raman Spectra from Low-Z Elements. <i>European Physical Journal Special Topics</i> , 1997, 7, C2-347-C2-352.   | 0.2 | 1         |

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|----|--|-----|-----------|
| 73 | Generalized Oscillator Strength Distribution of Liquid Water. , 2010, , 87-104.  |     | 1         |
| 74 | Xçšéžå¼¼æ€šæ•£ä¹±åˆ†å…%ã®ç¼¼åœ“. Journal of the Spectroscopical Society of Japan, 2004, 53, 283-294.   | 0.0 | 1         |
| 75 | A MultiCrystal Spectrometer with a TwoDimensional PositionSensitive Detector for Xray Fluorescence Spectroscopy. Physica Scripta, 2005, , 1097.  | 2.5 | 0         |
| 76 | Polarized SSXANES study of spin ordering in ferromagnetic and paramagnetic phases of La <sub>1.2</sub> Sr <sub>1.65</sub> Ca <sub>0.15</sub> Mn <sub>2</sub> O <sub>7</sub> . Journal of Magnetism and Magnetic Materials, 2008, 320, 1528-1534. | 2.3 | 0         |
| 77 | Recent Developments of Inelastic X-ray Scattering Spectroscopy.. Nihon Kessho Gakkaishi, 1998, 40, 177-184.  | 0.0 | 0         |
| 78 | Highly Resolved Mn $\langle i \rangle K \langle /i \rangle^2$ Emission: A Potential Probe in Laboratory for Analysis of Ligand Coordination around Mn Atoms in Gels and Solutions. Analytical Sciences, 2020, 36, 1197-1202.                     | 1.6 | 0         |
| 79 | A Reaction-Diffusion-Reaction System for Forming Periodic Precipitation Bands of Cu-Fe-Based Prussian Blue Analogues: A Recent Study. , 2021, , 18-36.   |     | 0         |