# Simona L Polo

List of Publications by Year
in descending order



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|---|---|---|---|
| 78 papers | 7,995 citations | 57631 44 h-index | 79541 73 g-index |
| 81 all docs | 81 docs citations | 81 times ranked | 9554 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Clathrin-independent endocytosis of ubiquitinated cargos. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2760-2765. | 3.3 | 719 |
| 2 | Multiple monoubiquitination of RTKs is sufficient for their endocytosis and degradation. Nature Cell Biology, 2003, 5, 461-466. | 4.6 | 715 |
| 3 | A single motif responsible for ubiquitin recognition and monoubiquitination in endocytic proteins. Nature, 2002, 416, 451-455. | 13.7 | 592 |
| 4 | Clathrin-Mediated Internalization Is Essential for Sustained EGFR Signaling but Dispensable for Degradation. Developmental Cell, 2008, 15, 209-219. | 3.1 | 557 |
| 5 | When ubiquitin meets ubiquitin receptors: a signalling connection. Nature Reviews Molecular Cell Biology, 2003, 4, 491-497. | 16.1 | 278 |
| 6 | Endocytosis and Signaling: Cell Logistics Shape the Eukaryotic Cell Plan. Physiological Reviews, 2012, 92, 273-366. | 13.1 | 278 |
| 7 | Crystal Structure of the Ubiquitin Binding Domains of Rabex-5 Reveals Two Modes of Interaction with Ubiquitin. Cell, 2006, 124, 1183-1195. | 13.5 | 259 |
| 8 | Endocytosis Conducts the Cell Signaling Orchestra. Cell, 2006, 124, 897-900. | 13.5 | 245 |
| 9 | Abi1 regulates the activity of N-WASP and WAVE in distinct actin-based processes. Nature Cell Biology, 2005, 7, 969-976. | 4.6 | 201 |
| 10 | USP15 is a deubiquitylating enzyme for receptor-activated SMADs. Nature Cell Biology, 2011, 13, 1368-1375. | 4.6 | 182 |
| 11 | Ubiquitin in trafficking: The network at work. Experimental Cell Research, 2009, 315, 1610-1618. | 1.2 | 176 |
| 12 | Molecular mechanisms of coupled monoubiquitination. Nature Cell Biology, 2006, 8, 1246-1254. | 4.6 | 173 |
| 13 | Câ€“C Chemokines Released by Lipopolysaccharide (LPS)-stimulated Human Macrophages Suppress HIV-1 Infection in Both Macrophages and T Cells. Journal of Experimental Medicine, 1997, 185, 805-816. | 4.2 | 160 |
| 14 | Threshold-controlled ubiquitination of the EGFR directs receptor fate. EMBO Journal, 2013, 32, 2140-2157. | 3.5 | 156 |
| 15 | N-WASP deficiency impairs EGF internalization and actin assembly at clathrin-coated pits. Journal of Cell Science, 2005, 118, 3103-3115. | 1.2 | 155 |
| 16 | Deubiquitinating function of ataxin-3: Insights from the solution structure of the Josephin domain. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12700-12705. | 3.3 | 151 |
| 17 | Structure of the HECT:ubiquitin complex and its role in ubiquitin chain elongation. EMBO Reports, 2011, 12, 342-349. | 2.0 | 146 |
| 18 | Structure of a ubiquitin-loaded HECT ligase reveals the molecular basis for catalytic priming. Nature Structural and Molecular Biology, 2013, 20, 696-701. | 3.6 | 146 |

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|---|---|---|---|
| 19 | A novel ubiquitin mark at the N-terminal tail of histone H2As targeted by RNF168 ubiquitin ligase. Cell Cycle, 2012, 11, 2538-2544. | 1.3 | 141 |
| 20 | Nucleoside diphosphate kinases fuel dynamin superfamily proteins with GTP for membrane remodeling. Science, 2014, 344, 1510-1515. | 6.0 | 130 |
| 21 | Reticulon 3â€"dependent ER-PM contact sites control EGFR nonclathrin endocytosis. Science, 2017, 356, 617-624. | 6.0 | 118 |
| 22 | Rapid Ca2+-dependent decrease of protein ubiquitination at synapses. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14908-14913. | 3.3 | 116 |
| 23 | Nonproductive Human Immunodeficiency Virus Type 1 Infection of Human Fetal Astrocytes: Independence from CD4 and Major Chemokine Receptors. Virology, 1999, 264, 370-384. | 1.1 | 113 |
| 24 | The ubiquitination code: a signalling problem. Cell Division, 2007, 2, 11. | 1.1 | 105 |
| 25 | HECT E3 Ligases: A Tale With Multiple Facets. Frontiers in Physiology, 2019, 10, 370. | 1.3 | 103 |
| 26 | Cortactin Promotes Migration and Platelet-derived Growth Factor-induced Actin Reorganization by Signaling to Rho-GTPases. Molecular Biology of the Cell, 2009, 20, 3209-3223. | 0.9 | 102 |
| 27 | A two-tiered mechanism of EGFR inhibition by RALT/MIG6 via kinase suppression and receptor degradation. Journal of Cell Biology, 2010, 189, 557-571. | 2.3 | 102 |
| 28 | Endocytosis and cancer. Current Opinion in Cell Biology, 2004, 16, 156-161. | 2.6 | 101 |
| 29 | Nucleocytoplasmic Shuttling of Endocytic Proteins. Journal of Cell Biology, 2001, 153, 1511-1518. | 2.3 | 94 |
| 30 | Characterization of Human Constitutive Photomorphogenesis Protein 1, a RING Finger Ubiquitin Ligase That Interacts with Jun Transcription Factors and Modulates Their Transcriptional Activity. Journal of Biological Chemistry, 2003, 278, 19682-19690. | 1.6 | 90 |
| 31 | EH and UIM: Endocytosis and More. Science Signaling, 2003, 2003, re17-re17. | 1.6 | 86 |
| 32 | Tyrosine phosphorylation of NEDD4 activates its ubiquitin ligase activity. Science Signaling, 2014, 7, ra95. | 1.6 | 76 |
| 33 | USP9X Controls EGFR Fate by Deubiquitinating the Endocytic Adaptor Eps15. Current Biology, 2016, 26, 173-183. | 1.8 | 71 |
| 34 | Structural and Functional Framework for the Autoinhibition of Nedd4-Family Ubiquitin Ligases. Structure, 2014, 22, 1639-1649. | 1.6 | 70 |
| 35 | Quantitative analysis reveals how EGFR activation and downregulation are coupled in normal but not in cancer cells. Nature Communications, 2015, 6, 7999. | 5.8 | 66 |
| 36 | <i> <scp>HUWE</scp> 1 </i> is a critical colonic tumour suppressor gene that prevents <scp>MYC</scp> signalling, <scp>DNA</scp> damage accumulation and tumour initiation. EMBO Molecular Medicine, 2017, 9, 181-197. | 3.3 | 63 |

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|---|---|---|---|
| 37 | The LXR-IDOL axis defines a clathrin-, caveolae-, and dynamin-independent endocytic route for LDLR internalization and lysosomal degradation. Journal of Lipid Research, 2013, 54, 2174-2184. | 2.0 | 60 |
| 38 | Molecularly Distinct Clathrin-Coated Pits Differentially Impact EGFR Fate and Signaling. Cell Reports, 2019, 27, 3049-3061.e6. | 2.9 | 58 |
| 39 | Proteomic snapshot of the EGFâ€induced ubiquitin network. Molecular Systems Biology, 2011, 7, 462. | 3.2 | 56 |
| 40 | Targeting <scp>HECT</scp>â€type E3 ligases â€" insights from catalysis, regulation and inhibitors. FEBS Letters, 2017, 591, 2636-2647. | 1.3 | 55 |
| 41 | Enhancement of the HIV-1 inhibitory activity of RANTES by modification of the N-terminal region: dissociation from CCR5 activation. European Journal of Immunology, 2000, 30, 3190-3198. | 1.6 | 52 |
| 42 | Structural determinants of CCR5 recognition and HIV-1 blockade in RANTES. Nature Structural Biology, 2001, 8, 611-615. | 9.7 | 49 |
| 43 | Myosin VI Contains a Compact Structural Motif that Binds to Ubiquitin Chains. Cell Reports, 2016, 14, 2683-2694. | 2.9 | 49 |
| 44 | Longitudinal analysis of serum chemokine levels in the course of HIV-1 infection. Aids, 1999, 13, 447-454. | 1.0 | 48 |
| 45 | Diverse functions of myosin VI elucidated by an isoform-specific Î±-helix domain. Nature Structural and Molecular Biology, 2016, 23, 300-308. | 3.6 | 42 |
| 46 | Desmoplakin maintains gap junctions by inhibiting Ras/MAPK and lysosomal degradation of connexin-43. Journal of Cell Biology, 2018, 217, 3219-3235. | 2.3 | 41 |
| 47 | Clathrin light chain A drives selective myosin VI recruitment to clathrin-coated pits under membrane tension. Nature Communications, 2019, 10, 4974. | 5.8 | 38 |
| 48 | Differential Nucleocytoplasmic Trafficking between the Related Endocytic Proteins Eps15 and Eps15R. Journal of Biological Chemistry, 2002, 277, 8941-8948. | 1.6 | 36 |
| 49 | Signaling-mediated control of ubiquitin ligases in endocytosis. BMC Biology, 2012, 10, 25. | 1.7 | 34 |
| 50 | Finding the Right Partner: Science or ART?. Cell, 2008, 135, 590-592. | 13.5 | 32 |
| 51 | A Highly Luminescent Tetrahydrocurcumin Ir<sup>III</sup> Complex with Remarkable Photoactivated Anticancer Activity. Chemistry - A European Journal, 2019, 25, 7948-7952. | 1.7 | 32 |
| 52 | Ubiquitination dynamics in the earlyâ€branching eukaryote G iardia intestinalis. MicrobiologyOpen, 2013, 2, 525-539. | 1.2 | 23 |
| 53 | Î²-Sheet Augmentation Is a Conserved Mechanism of Priming HECT E3 Ligases for Ubiquitin Ligation. Journal of Molecular Biology, 2018, 430, 3218-3233. | 2.0 | 23 |
| 54 | Selectivity of the CUBAN domain in the recognition of ubiquitin and NEDD8. FEBS Journal, 2019, 286, 653-677. | 2.2 | 22 |

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|---|---|---|---|
| 55 | Identification of a Phage-coded DNA-binding Protein that Regulates Transcription from Late Promoters in Bacteriophage P4. Journal of Molecular Biology, 1996, 257, 745-755. | 2.0 | 19 |
| 56 | Identification of two linear plasmids in the actinomycete Planobispora rosea. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.7 | 19 |
| 57 | When ubiquitin meets E-cadherin: Plasticity of the epithelial cellular barrier. Seminars in Cell and Developmental Biology, 2019, 93, 136-144. | 2.3 | 19 |
| 58 | Translation of Two Nested Genes in Bacteriophage P4 Controls Immunity-Specific Transcription Termination. Journal of Bacteriology, 1999, 181, 5225-5233. | 1.0 | 17 |
| 59 | Myomics: myosin VI structural and functional plasticity. Current Opinion in Structural Biology, 2021, 67, 33-40. | 2.6 | 16 |
| 60 | Myosin VI Drives Clathrin-Mediated AMPA Receptor Endocytosis to Facilitate Cerebellar Long-Term Depression. Cell Reports, 2019, 28, 11-20.e9. | 2.9 | 15 |
| 61 | The prolyl-isomerase PIN1 is essential for nuclear Lamin-B structure and function and protects heterochromatin under mechanical stress. Cell Reports, 2021, 36, 109694. | 2.9 | 15 |
| 62 | Keeping EGFR signaling in check. Cell Cycle, 2014, 13, 681-682. | 1.3 | 13 |
| 63 | CoCUN, a Novel Ubiquitin Binding Domain Identified in N4BP1. Biomolecules, 2019, 9, 284. | 1.8 | 12 |
| 64 | Listeria monocytogenes Exploits Host Caveolin for Cell-to-Cell Spreading. MBio, 2020, 11, . | 1.8 | 11 |
| 65 | In Vitro Ubiquitination: Self-Ubiquitination, Chain Formation, and Substrate Ubiquitination Assays. Methods in Molecular Biology, 2016, 1449, 153-160. | 0.4 | 10 |
| 66 | USP25 Regulates EGFR Fate by Modulating EGF-Induced Ubiquitylation Dynamics. Biomolecules, 2020, 10, 1548. | 1.8 | 8 |
| 67 | Hecw controls oogenesis and neuronal homeostasis by promoting the liquid state of ribonucleoprotein particles. Nature Communications, 2021, 12, 5488. | 5.8 | 7 |
| 68 | The NEDD4 ubiquitin E3 ligase: a snapshot view of its functional activity and regulation. Biochemical Society Transactions, 2022, 50, 473-485. | 1.6 | 7 |
| 69 | Myosin VI regulates ciliogenesis by promoting the turnover of the centrosomal/satellite protein OFD1. EMBO Reports, 2022, 23, e54160. | 2.0 | 7 |
| 70 | Strategies to Detect Endogenous Ubiquitination of a Target Mammalian Protein. Methods in Molecular Biology, 2016, 1449, 143-151. | 0.4 | 4 |
| 71 | Recurrent Spliceosome Mutations in Cancer: Mechanisms and Consequences of Aberrant Splice Site Selection. Cancers, 2022, 14, 281. | 1.7 | 3 |
| 72 | Detection of ubiquitinated targets in mammalian and Drosophila models. Methods in Enzymology, 2019, 619, 293-318. | 0.4 | 2 |

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|---|---|---|---|
| 73 | Multi-step purification strategy for RANTES wild-type and mutated analogues expressed in a baculovirus system. Biomedical Applications, 2000, 737, 47-54. | 1.7 | 1 |
| 74 | Molecular Mechanism of Ubiquitin-Dependent Traffic. , 2013, , 191-218. | | 0 |
| 75 | Endocytosis. , 2011, , 1227-1231. | | 0 |
| 76 | Endocytosis. , 2015, , 1-6. | | 0 |
| 77 | Endocytosis. , 2015, , 1511-1516. | | 0 |
| 78 | Signaling from Internalized Receptors. , 2006, , 89-100. | | 0 |