Shirley K Knauer

List of Publications by Year
in descending order

130 papers	7,655 citations	100601 38 h-index	60403 85 g-index
144 all docs	144 docs citations	144 times ranked	12514 citing authors

#	Article	IF	Citations
1	Selective Disruption of Survivin's Proteinâ€Protein Interactions: A Supramolecular Approach Based on Guanidiniocarbonylpyrrole. ChemBioChem, 2022, , e202100618.	1.3	3
2	The Taspase1/Myosin1f-axis regulates filopodia dynamics. IScience, 2022, 25, 104355.	1.9	4
3	Impact of Secretion-Active Osteoblast-Specific Factor 2 in Promoting Progression and Metastasis of Head and Neck Cancer. Cancers, 2022, 14, 2337.	1.7	4
4	GGDEF domain as spatial on-switch for a phosphodiesterase by interaction with landmark protein HubP. Npj Biofilms and Microbiomes, 2022, 8, 35.	2.9	9
5	Front Cover: Advances towards Cellâ€Specific Gene Transfection: A Smallâ€Molecule Approach Allows Orderâ€ofâ€Magnitude Selectivity (Chem. Eur. J. 43/2022). Chemistry - A European Journal, 2022, 28, .	1.7	0
6	TNF-Î±-Inhibition Improves the Biocompatibility of Porous Polyethylene Implants In Vivo. Tissue Engineering and Regenerative Medicine, 2021, 18, 297-303.	1.6	3
7	PEGylated sequence-controlled macromolecules using supramolecular binding to target the Taspase1/Importin Î± interaction. Chemical Communications, 2021, 57, 3091-3094.	2.2	4
8	Luminescent Amphiphilic Aminoglycoside Probes to Study Transfection. ChemBioChem, 2021, 22, 1563-1567.	1.3	5
9	Specific inhibition of the Survivinâ€“CRM1 interaction by peptide-modified molecular tweezers. Nature Communications, 2021, 12, 1505.	5.8	18
10	Amyloid precursor protein elevates fusion of promyelocytic leukemia nuclear bodies in human hippocampal areas with high plaque load. Acta Neuropathologica Communications, 2021, 9, 66.	2.4	5
11	Umbelliferone Decorated Waterâ€soluble Zinc(II) Phthalocyanines â€“ In Vitro Phototoxic Antimicrobial Antiâ€cancer Agents. Chemistry - A European Journal, 2021, 27, 14672-14680.	1.7	6
12	New Tools to Probe the Protein Surface: Ultrasmall Gold Nanoparticles Carry Amino Acid Binders. Journal of Physical Chemistry B, 2021, 125, 115-127.	1.2	12
13	A Bivalent Supramolecular GCP Ligand Enables Blocking of the Taspase1/Importin Î± Interaction. ChemMedChem, 2021, 17, e202100640.	1.6	5
14	Functional Disruption of the Cancerâ€Relevant Interaction between Survivin and Histone H3 with a Guanidiniocarbonyl Pyrrole Ligand. Angewandte Chemie - International Edition, 2020, 59, 5567-5571.	7.2	19
15	Cancerâ€Cellâ€Specific Drug Delivery by a Tumorâ€Homing CPPâ€Gossypol Conjugate Employing a Tracelessly Cleavable Linker. Chemistry - A European Journal, 2020, 26, 3010-3015.	1.7	22
16	A Supramolecular Stabilizer of the 14â€3â€3Î¶/ERÎ± Proteinâ€Protein Interaction with a Synergistic Mode of Action. Angewandte Chemie - International Edition, 2020, 59, 5284-5287.	7.2	15
17	A Supramolecular Stabilizer of the 14â€3â€3Î¶/ERÎ± Proteinâ€Protein Interaction with a Synergistic Mode of Action. Angewandte Chemie, 2020, 132, 5322-5325.	1.6	0
18	Mechanisms of nanotoxicity â€“ biomolecule coronas protect pathological fungi against nanoparticle-based eradication. Nanotoxicology, 2020, 14, 1157-1174.	1.6	8

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19	Boosting nanotoxicity to combat multidrug-resistant bacteria in pathophysiological environments. Nanoscale Advances, 2020, 2, 5428-5440.	2.2	9
20	Lipofection with estrone-based luminophores featuring aggregation-induced emission properties. RSC Advances, 2020, 10, 19643-19647.	1.7	3
21	Supramolecular subphthalocyanine complexesâ€“cellular uptake and phototoxicity. Chemical Communications, 2020, 56, 7653-7656.	2.2	9
22	The other side of the corona: nanoparticles inhibit the protease taspase1 in a size-dependent manner. Nanoscale, 2020, 12, 19093-19103.	2.8	7
23	Funktionelle Inhibition der krebsrelevanten Interaktion von Survivin und Histon H3 mit einem Guanidiniumcarbonylpyrrolâ€Liganden. Angewandte Chemie, 2020, 132, 5614-5619.	1.6	3
24	Smart Glycopolymeric Nanoparticles for Multivalent Lectin Binding and Stimuli-Controlled Guest Release. Biomacromolecules, 2020, 21, 2356-2364.	2.6	5
25	Non-viral transfection vectors: are hybrid materials the way forward?. MedChemComm, 2019, 10, 1692-1718.	3.5	40
26	A Branched Tripeptide with an Anionâ€Binding Motif as a New Delivery Carrier for Efficient Gene Transfection. ChemBioChem, 2019, 20, 1410-1416.	1.3	28
27	Is small smarter? Nanomaterial-based detection and elimination of circulating tumor cells: current knowledge and perspectives . International Journal of Nanomedicine, 2019, Volume 14, 4187-4209.	3.3	22
28	Protein Dimerization Probed with Site-Specific Attached Single Nanoparticles. Biophysical Journal, 2019, 116, 284a.	0.2	0
29	Arginine mimetic appended peptide-based probes for fluorescence turn-on detection of 14-3-3 proteins. Organic and Biomolecular Chemistry, 2019, 17, 4359-4363.	1.5	11
30	Resistance to Nano-Based Antifungals Is Mediated by Biomolecule Coronas. ACS Applied Materials & Interfaces, 2019, 11, 104-114.	4.0	8
31	Biomolecule-corona formation confers resistance of bacteria to nanoparticle-induced killing: Implications for the design of improved nanoantibiotics. Biomaterials, 2019, 192, 551-559.	5.7	48
32	REMOVED: Breaking resistance to nanoantibiotics by overriding corona-dependent inhibition using a pH-switch. Materials Today, 2019, 26, 19-29.	8.3	9
33	A dipeptide with enhanced anion binding affinity enables cell uptake and protein delivery. Organic and Biomolecular Chemistry, 2018, 16, 2312-2317.	1.5	7
34	On the Influence of Substitution Patterns in Thioetherâ€Based Luminophores with Aggregationâ€Induced Emission Properties. ChemistrySelect, 2018, 3, 985-991.	0.7	18
35	MTOR inhibitor-based combination therapies for pancreatic cancer. British Journal of Cancer, 2018, 118, 366-377.	2.9	35
36	TFIIA transcriptional activity is controlled by a â€˜cleave-and-runâ€™ Exportin-1/Taspase 1-switch. Journal of Molecular Cell Biology, 2018, 10, 33-47.	1.5	8

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37	Simultaneous Rayleigh/Mie and Raman/Fluorescence Characterization of Molecularly Functionalized Colloids by Correlative Single-Particle Real-Time Imaging in Suspension. Analytical Chemistry, 2018, 90, 723-728.	3.2	9
38	Nanoparticle binding attenuates the pathobiology of gastric cancer-associated Helicobacter pylori. Nanoscale, 2018, 10, 1453-1463.	2.8	45
39	Nanosized food additives impact beneficial and pathogenic bacteria in the human gut: a simulated gastrointestinal study. Npj Science of Food, 2018, 2, 22.	2.5	37
40	From Supramolecular Vesicles to Micelles: Controllable Construction of Tumorâ€Targeting Nanocarriers Based on Hostâ€“Guest Interaction between a Pillar[5]areneâ€Based Prodrug and a RGDâ€Sulfonate Guest. Small, 2018, 14, e1803952.	5.2	67
41	Nanomaterialâ€“microbe cross-talk: physicochemical principles and (patho)biological consequences. Chemical Society Reviews, 2018, 47, 5312-5337.	18.7	44
42	Formation of Twisted Î²â€Sheet Tapes from a Selfâ€Complementary Peptide Based on Novel Pillarareneâ€GCP Hostâ€“Guest Interaction with Gene Transfection Properties. Chemistry - A European Journal, 2018, 24, 9754-9759.	1.7	22
43	Nanoparticle decoration impacts airborne fungal pathobiology. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7087-7092.	3.3	15
44	Small Meets Smaller: Effects of Nanomaterials on Microbial Biology, Pathology, and Ecology. ACS Nano, 2018, 12, 6351-6359.	7.3	66
45	Expressional analysis of disease-relevant signalling-pathways in primary tumours and metastasis of head and neck cancers. Scientific Reports, 2018, 8, 7326.	1.6	16
46	Human DHEA sulfation requires direct interaction between PAPS synthase 2 and DHEA sulfotransferase SULT2A1. Journal of Biological Chemistry, 2018, 293, 9724-9735.	1.6	29
47	Translocation Biosensorsâ€”Versatile Tools to Probe Protein Functions in Living Cells. Methods in Molecular Biology, 2018, 1683, 195-210.	0.4	1
48	Survivin antagonizes chemotherapy-induced cell death of colorectal cancer cells. Oncotarget, 2018, 9, 27835-27850.	0.8	19
49	Bioâ€“Nano Interactions. , 2017, , 1-12.		17
50	Efficient Gene Transfection through Inhibition of Î²â€Sheet (Amyloid Fiber) Formation of a Short Amphiphilic Peptide by Gold Nanoparticles. Angewandte Chemie - International Edition, 2017, 56, 8083-8088.	7.2	15
51	Efficient Gene Transfection through Inhibition of Î²â€Sheet (Amyloid Fiber) Formation of a Short Amphiphilic Peptide by Gold Nanoparticles. Angewandte Chemie, 2017, 129, 8195-8200.	1.6	2
52	Morphologyâ€Dependent Cell Imaging by Using a Selfâ€Assembled Diacetylene Peptide Amphiphile. Angewandte Chemie, 2017, 129, 14718-14722.	1.6	9
53	A Systematic Structureâ€“Activity Study of a New Type of Small Peptidic Transfection Vector Reveals the Importance of a Special Oxoâ€Anionâ€Binding Motif for Gene Delivery. ChemBioChem, 2017, 18, 2268-2279.	1.3	14
54	Morphologyâ€Dependent Cell Imaging by Using a Selfâ€Assembled Diacetylene Peptide Amphiphile. Angewandte Chemie - International Edition, 2017, 56, 14526-14530.	7.2	40

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55	Siteâ€Specific SERS Assay for Survivin Protein Dimer: From Ensemble Experiments to Correlative Singleâ€Particle Imaging. Small, 2017, 13, 1700802.	5.2	7
56	Survivin expression pattern in the intestine of normoxic and ischemic rats. BMC Gastroenterology, 2017, 17, 76.	0.8	12
57	Aromatic Thioethers as Novel Luminophores with Aggregationâ€Induced Fluorescence and Phosphorescence. Chemistry - A European Journal, 2017, 23, 13660-13668.	1.7	50
58	Analysis of HDACi-Induced Changes in Chromosomal Passenger Complex Localization. Methods in Molecular Biology, 2017, 1510, 47-59.	0.4	1
59	Incorporation of a Nonâ€Natural Arginine Analogue into a Cyclic Peptide Leads to Formation of Positively Charged Nanofibers Capable of Gene Transfection. Angewandte Chemie - International Edition, 2016, 55, 598-601.	7.2	69
60	Guanidiniocarbonyl pyrrole (GCP) conjugated PAMAM-G2, a highly efficient vector for gene delivery: the importance of DNA condensation. Chemical Communications, 2016, 52, 12446-12449.	2.2	15
61	Introduction of a tailor made anion receptor into the side chain of small peptides allows fine-tuning the thermodynamic signature of peptideâ€“DNA binding. Organic and Biomolecular Chemistry, 2016, 14, 8800-8803.	1.5	9
62	Membrane tethering of APP c-terminal fragments is a prerequisite for T668 phosphorylation preventing nuclear sphere generation. Cellular Signalling, 2016, 28, 1725-1734.	1.7	11
63	Taspase1: a 'misunderstood' protease with translational cancer relevance. Oncogene, 2016, 35, 3351-3364.	2.6	20
64	Cleaving for growth: threonine aspartase 1â€”a protease relevant for development and disease. FASEB Journal, 2016, 30, 1012-1022.	0.2	11
65	An Old Flame Never Dies: Survivin in Cancer and Cellular Senescence. Gerontology, 2016, 62, 173-181.	1.4	25
66	RHAMM splice variants confer radiosensitivity in human breast cancer cell lines. Oncotarget, 2016, 7, 21428-21440.	0.8	18
67	A Tailorâ€Made Specific Anionâ€Binding Motif in the Side Chain Transforms a Tetrapeptide into an Efficient Vector for Gene Delivery. Angewandte Chemie, 2015, 127, 2984-2987.	1.6	40
68	Sumoylation of HDAC2 promotes NF-ÎºB-dependent gene expression. Oncotarget, 2015, 6, 7123-7135.	0.8	40
69	The inducible E3 ubiquitin ligases SIAH1 and SIAH2 perform critical roles in breast and prostate cancers. Cytokine and Growth Factor Reviews, 2015, 26, 405-413.	3.2	23
70	Fly versus man: evolutionary impairment of nucleolar targeting affects the degradome of Drosophila's Taspase1. FASEB Journal, 2015, 29, 1973-1985.	0.2	9
71	A Tailorâ€Made Specific Anionâ€Binding Motif in the Side Chain Transforms a Tetrapeptide into an Efficient Vector for Gene Delivery. Angewandte Chemie - International Edition, 2015, 54, 2941-2944.	7.2	94
72	No king without a crown â€“ impact of the nanomaterial-protein corona on nanobiomedicine. Nanomedicine, 2015, 10, 503-519.	1.7	101

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73	The nanoparticle biomolecule corona: lessons learned â€“ challenge accepted?. Chemical Society Reviews, 2015, 44, 6094-6121.	18.7	539
74	Evolutionary divergence of Threonine Aspartase1 leads to species-specific substrate recognition. Biological Chemistry, 2015, 396, 367-376.	1.2	2
75	miRâ€542â€3p exerts tumor suppressive functions in neuroblastoma by downregulating <scp>S</scp>urvivin. International Journal of Cancer, 2015, 136, 1308-1320.	2.3	78
76	Calcium phosphate increases the encapsulation efficiency of hydrophilic drugs (proteins, nucleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 delivery. Journal of Materials Chemistry B, 2014, 2, 7250-7259.	2.9	39
77	Peptidyl Succinimidyl Peptides as Taspase 1 Inhibitors. ChemBioChem, 2014, 15, 2233-2237.	1.3	14
78	Quantitative profiling of the protein coronas that form around nanoparticles. Nature Protocols, 2014, 9, 2030-2044.	5.5	200
79	Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. Nature Nanotechnology, 2013, 8, 772-781.	15.6	1,817
80	Functional Characterization of Novel Mutations Affecting Survivin (BIRC5)-Mediated Therapy Resistance in Head and Neck Cancer Patients. Human Mutation, 2013, 34, 395-404.	1.1	16
81	SIAH proteins: critical roles in leukemogenesis. Leukemia, 2013, 27, 792-802.	3.3	44
82	Utilizing Combinatorial Chemistry and Rational Design: Peptidic Tweezers with Nanomolar Affinity to DNA Can Be Transformed into Efficient Vectors for Gene Delivery by Addition of a Lipophilic Tail. Angewandte Chemie - International Edition, 2013, 52, 14016-14020.	7.2	42
83	Allosteric inhibition of Taspase1â€²s pathobiological activity by enforced dimerizationin vivo. FASEB Journal, 2012, 26, 3421-3429.	0.2	22
84	Chemico-genetic strategies to inhibit the leukemic potential of threonine aspartase-1. Blood Cancer Journal, 2012, 2, e77-e77.	2.8	15
85	Targeting Taspase1 for Cancer Therapyâ€"Letter. Cancer Research, 2012, 72, 2912-2912.	0.4	9
86	Dynamically regulated sumoylation of HDAC2 controls p53 deacetylation and restricts apoptosis following genotoxic stress. Journal of Molecular Cell Biology, 2012, 4, 284-293.	1.5	70
87	Differential regulation of PMLâ€"RARÎ± stability by the ubiquitin ligases SIAH1/SIAH2 and TRIAD1. International Journal of Biochemistry and Cell Biology, 2012, 44, 132-138.	1.2	23
88	Impact of the Nanoparticleâ€"Protein Corona on Colloidal Stability and Protein Structure. Langmuir, 2012, 28, 9673-9679.	1.6	291
89	Efficient gene delivery into cells by a surprisingly small three-armed peptide ligand. Chemical Science, 2012, 3, 996.	3.7	32
90	Human PAPS Synthase Isoforms Are Dynamically Regulated Enzymes with Access to Nucleus and Cytoplasm. PLoS ONE, 2012, 7, e29559.	1.1	31

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91	Histone deacetylase inhibitors block IFNÎ³-induced STAT1 phosphorylation. Cellular Signalling, 2012, 24, 1453-1460.	1.7	47
92	Overexpression of the Catalytically Impaired Taspase1T234V or Taspase1D233A Variants Does Not Have a Dominant Negative Effect in T(4;11) Leukemia Cells. PLoS ONE, 2012, 7, e34142.	1.1	11
93	A combination of a ribonucleotide reductase inhibitor and histone deacetylase inhibitors downregulates EGFR and triggers BIM-dependent apoptosis in head and neck cancer. Oncotarget, 2012, 3, 31-43.	0.8	60
94	Nanoparticle Size Is a Critical Physicochemical Determinant of the Human Blood Plasma Corona: A Comprehensive Quantitative Proteomic Analysis. ACS Nano, 2011, 5, 7155-7167.	7.3	749
95	Bioassays to Monitor Taspase1 Function for the Identification of Pharmacogenetic Inhibitors. PLoS ONE, 2011, 6, e18253.	1.1	25
96	The Importinâ€Alpha/Nucleophosmin Switch Controls Taspase1 Protease Function. Traffic, 2011, 12, 703-714.	1.3	32
97	The heterodimerization domains of MLLâ€"FYRN and FYRCâ€"are potential target structures in t(4;11) leukemia. Leukemia, 2011, 25, 663-670.	3.3	31
98	Cell-based Analysis of Structure-Function Activity of Threonine Aspartase 1. Journal of Biological Chemistry, 2011, 286, 3007-3017.	1.6	45
99	Nuclear receptors in head and neck cancer: current knowledge and perspectives. International Journal of Cancer, 2010, 126, 801-809.	2.3	21
100	An otoprotective role for the apoptosis inhibitor protein survivin. Cell Death and Disease, 2010, 1, e51-e51.	2.7	33
101	Expression analysis suggests a potential cytoprotective role of Birc5 in the inner ear. Molecular and Cellular Neurosciences, 2010, 45, 297-305.	1.0	19
102	Cloning and functional characterization of the guinea pig apoptosis inhibitor protein Survivin. Gene, 2010, 469, 9-17.	1.0	13
103	An update on the pathobiological relevance of nuclear receptors for cancers of the head and neck. Histology and Histopathology, 2010, 25, 1093-104.	0.5	7
104	Prognostic and Therapeutic Potential of Nuclear Receptors in Head and Neck Squamous Cell Carcinomas. Journal of Oncology, 2009, 2009, 1-10.	0.6	2
105	A phosphorylation-acetylation switch regulates STAT1 signaling. Genes and Development, 2009, 23, 223-235.	2.7	227
106	Similar Regulation of Human Inducible Nitric-oxide Synthase Expression by Different Isoforms of the RNA-binding Protein AUF1. Journal of Biological Chemistry, 2009, 284, 2755-2766.	1.6	33
107	Translocation Biosensors â€“ Cellular System Integrators to Dissect CRM1-Dependent Nuclear Export by Chemicogenomics. Sensors, 2009, 9, 5423-5445.	2.1	33
108	Inducible NO synthase confers chemoresistance in head and neck cancer by modulating survivin. International Journal of Cancer, 2009, 124, 2033-2041.	2.3	67

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109	Histone deacetylase inhibitors and hydroxyurea modulate the cell cycle and cooperatively induce apoptosis. Oncogene, 2008, 27, 732-740.	2.6	77
110	Phosphorylation of nm23-H1 by CKI induces its complex formation with h-prune and promotes cell motility. Oncogene, 2008, 27, 1853-1864.	2.6	48
111	NO Signaling Confers Cytoprotectivity through the Survivin Network in Ovarian Carcinomas. Cancer Research, 2008, 68, 5159-5166.	0.4	68
112	Therapeutic potential of nuclear receptors. Expert Opinion on Therapeutic Patents, 2008, 18, 861-888.	2.4	13
113	Survivinâ€™s Dual Role: An Exportâ€™s View. Cell Cycle, 2007, 6, 518-521.	1.3	64
114	The Survivin Isoform Survivin-3B is Cytoprotective and can Function as a Chromosomal Passenger Complex Protein. Cell Cycle, 2007, 6, 1501-1508.	1.3	54
115	Nuclear export is essential for the tumorâ€promoting activity of survivin. FASEB Journal, 2007, 21, 207-216.	0.2	116
116	Nuclear and Cytoplasmic Survivin: Molecular Mechanism, Prognostic, and Therapeutic Potential. Cancer Research, 2007, 67, 5999-6002.	0.4	209
117	The differentiation antigen NY-BR-1 is a potential target for antibody-based therapies in breast cancer. International Journal of Cancer, 2007, 120, 2635-2642.	2.3	31
118	Dynamic survivin in head and neck cancer: Molecular mechanism and therapeutic potential. International Journal of Cancer, 2007, 121, 1169-1174.	2.3	38
119	Dynamic intracellular survivin in oral squamous cell carcinoma: underlying molecular mechanism and potential as an early prognostic marker. Journal of Pathology, 2007, 211, 532-540.	2.1	100
120	The Role of Survivin for Radiation Therapy. Strahlentherapie Und Onkologie, 2007, 183, 593-599.	1.0	74
121	The survivin isoform survivin-3B is cytoprotective and can function as a chromosomal passenger complex protein. Cell Cycle, 2007, 6, 1502-9.	1.3	37
122	Nucleocytoplasmic Shuttling and the Biological Activity of Mouse Survivin are Regulated by an Active Nuclear Export Signal. Traffic, 2006, 7, 1461-1472.	1.3	36
123	Targeted induction of apoptosis by chimeric granzyme B fusion proteins carrying antibody and growth factor domains for cell recognition. Cell Death and Differentiation, 2006, 13, 576-585.	5.0	57
124	The Survivinâ€“Crm1 interaction is essential for chromosomal passenger complex localization and function. EMBO Reports, 2006, 7, 1259-1265.	2.0	112
125	Acetylation of Stat1 modulates NF-ÂB activity. Genes and Development, 2006, 20, 473-485.	2.7	189
126	Translocation Biosensors to Study Signal-Specific Nucleo-Cytoplasmic Transport, Protease Activity and Protein-Protein Interactions. Traffic, 2005, 6, 594-606.	1.3	42

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127	Nuclear Export Is Evolutionarily Conserved in CVC Paired-Like Homeobox Proteins and Influences Protein Stability, Transcriptional Activation, and Extracellular Secretion. Molecular and Cellular Biology, 2005, 25, 2573-2582.	1.1	35
128	Development of an Autofluorescent Translocation Biosensor System To Investigate Proteinâ^'Protein Interactions in Living Cells. Analytical Chemistry, 2005, 77, 4815-4820.	3.2	36
129	Advances towards Cell Specific Gene Transfection â€“ A Small Molecule Approach Allows for Order of Magnitude Selectivity. Chemistry - A European Journal, 0, , .	1.7	4
130	Advances towards Cellâ€Specific Gene Transfection: A Smallâ€Molecule Approach Allows Orderâ€ofâ€Magnitude Selectivity. Chemistry - A European Journal, 0, , .	1.7	1