

Publikationsverzeichnis Prof. Dr. Lars S. Maier

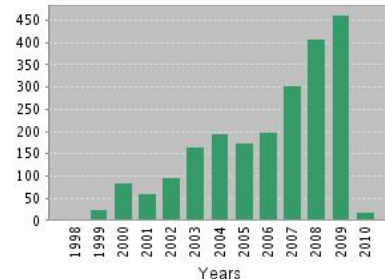
Originalarbeiten mit komplettem Reviewprozess (*Impactfactor/Zitate*)

	Gesamt	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Impactfactor	470	3,1	24,5	28,1	14,2	4,0	35,9	30,6	16,8	10,4	79,1	79,0	44,4	~50	~50

Citation report laut ISI Web of KnowledgeSM:

- Sum of the Times Cited: 2202
- Average Citations per year: 157,29
- Average Citations per item: 17,20
- h-index (Hirsch-Index): 23

Citations in Each Year



1. **Maier LS**, Pieske B, Allen DG. Influence of stimulation frequency on $[Na^+]_i$ and contractile function in Langendorff-perfused rat heart. *Am J Physiol.* 273:H1246-H1254.1997. (3,116/24)
2. **Maier LS**, Brandes R, Pieske B, Bers DM. Effects of left ventricular hypertrophy on force and Ca^{2+} handling in isolated rat myocardium. *Am J Physiol.* 274:H1361-H1370.1998. (3,077/32)
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5. Hasenfuss G, Pieske B, Castell M, Kretschmann B, **Maier LS**, Just H. Influence of the novel inotropic agent levosimendan on isometric tension and calcium cycling in failing human myocardium. *Circulation.* 98:2141-2147.1998. (9,173/124)
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11. **Maier LS**, Barckhausen P, Weisser J, Aleksic I, Baryalei M, Pieske B. Ca^{2+} handling in isolated human atrial myocardium. *Am J Physiol Heart Circ Physiol.* 279:H952-H958.2000. (3,243/17)
12. **Maier LS**, Bers DM, Pieske B. Differences in Ca^{2+} -handling and sarcoplasmic reticulum Ca^{2+} -content in isolated rat and rabbit myocardium. *J Mol Cell Cardiol.* 32:2249-2258.2000. (3,383/52)
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14. Hasenfuss G, **Maier LS**, Hermann HP, Lüers C, Hünlich M, Zeitz O, Janssen PML, Pieske B. Influence of pyruvate on contractile performance and Ca^{2+} -cycling in isolated failing human myocardium. *Circulation.* 105:194-199.2002. (10,255/36) mit Editorial von Lopaschuk GD, Rebeyka IM, Allard MF. *Metabolic modulation: a means to mend a broken heart.* *Circulation.* 105:140-142.2002.
15. **Maier LS**, Brauhälter J, Horn W, Weichert S, Pieske B. The role of SR Ca^{2+} -content in blunted inotropic responsiveness of failing human myocardium. *J Mol Cell Cardiol.* 34:455-467.2002. (4,091/11)
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17. DeSantiago J, **Maier LS**, Bers DM. Frequency-dependent acceleration of relaxation in the heart depends on

- CaMKII, but not phospholamban. *J Mol Cell Cardiol.* 34:975-984.2002. (4,091/81)
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 19. **Maier LS**, Zhang T, Chen L, DeSantiago J, Brown JH, Bers DM. Transgenic CaMKII δ_C overexpression uniquely alters cardiac myocyte Ca²⁺ handling: Reduced SR Ca²⁺ load and activated SR Ca²⁺ release. *Circ Res.* 92:904-911.2003. (10,117/128)
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 21. Wagner S, Seidler T, Picht E, **Maier LS**, Kazanski V, Teucher N, Schillinger W, Pieske B, Isenberg G, Hasenfuss G, Kögler H. Na⁺/Ca²⁺ exchanger overexpression predisposes to reactive oxygen species-induced injury. *Cardiovasc Res.* 60:404-412.2003. (5,164/14)
 22. DeSantiago J, **Maier LS**, Bers DM. Phospholamban is required for CaMKII-dependent recovery of Ca transients and SR Ca reuptake during acidosis in cardiac myocytes. *J Mol Cell Cardiol.* 36:67-74.2004. (4,198/19)
 23. Ziolo MT, **Maier LS**, Piacentino V 3rd, Bossuyt J, Houser SR, Bers DM. Myocyte NOS2 contributes to blunted β -adrenergic response in failing human hearts by decreasing Ca²⁺ transients. *Circulation.* 109:1886-1891.2004. (12,563/23)
 24. Weisser-Thomas J, Dieterich E, Janssen PML, Schmidt-Schweda S, **Maier LS**, Sumbilla C, Pieske B. Method-related effects of adenovirus-mediated LacZ and SERCA1 gene transfer on contractile behavior of cultured failing human cardiomyocytes. *J Pharmacol Toxicol Methods.* 51:91-103.2005. (4,10/4)
 25. **Maier LS**, Wahl-Schott C, Horn W, Weichert S, Pagel C, Wagner S, Dybkova N, Müller OJ, Näbauer M, Franz WM, Pieske B. Increased SR Ca²⁺ cycling contributes to improved contractile performance in SERCA2a-overexpressing transgenic rats. *Cardiovasc Res.* 67:636-646.2005. (5,283/12) *mit Editorial von Bassani JWM, Bassani RA. SERCA upregulation: Breaking the positive feedback in heart failure? Cardiovasc Res.* 67:581-582.2005.
 26. Kohlhaas M, Zhang T, Seidler T, Zibrova D, Dybkova N, Steen A, Wagner S, Chen L, Heller Brown J, Bers DM, **Maier LS**. Increased sarcoplasmic reticulum calcium leak but unaltered contractility by acute CaMKII overexpression in isolated rabbit cardiac myocytes. *Circ Res.* 98:235-244.2006. (9,854/49) *mit Editorial von Litwin SE. "Ryanogate: Who Leaked the Calcium?" Circ Res* 98:165-168.2006.
 27. Schillinger W, Teucher N, Christians C, Kohlhaas M, Sossalla S, Van Nguyen P, Schmidt AG, Schunck O, Nebendahl K, **Maier LS**, Zeitz O, Hasenfuss G. High intracellular Na⁺ preserves myocardial function at low heart rates in isolated myocardium from failing hearts. *Eur J Heart Fail.* 8:673-680.2006. (3,242/3)
 28. Guan K, Nayernia K, **Maier LS**, Wagner S, Dressel R, Lee JH, Nolte J, Wolf F, Li M, Engel W, Hasenfuss G. Pluripotency of spermatogonial stem cells from adult mouse testis. *Nature.* 440:1199-1203.2006. (26,681/219)
 29. Song Y, Shryock JC, Wagner S, Belardinelli L*, **Maier LS***. Blocking late sodium current reduces hydrogen peroxide-induced arrhythmogenic activity and contractile dysfunction. *J Pharmacol Exp Ther.* 318:214-222.2006. *geteilte Letztautorschaft. (3,956/29)
 30. Kögler H, Schott P, Toischer K, Milting H, Nguyen Van P, Kohlhaas M, Grebe C, Kassner A, Domeier E, Teucher N, Seidler T, Knöll R, **Maier LS**, El-Banayosy A, Körfer R, Hasenfuss G. Relevance of brain natriuretic peptide in preload-dependent regulation of cardiac sarcoplasmic reticulum Ca²⁺ ATPase expression. *Circulation.* 113:2724-2732.2006. (10,940/18)
 31. **Maier LS**, Ziolo MT, Bossuyt J, Persechini A, Mestri R, Bers DM. Dynamic changes in free Ca-calmodulin levels in adult cardiac myocytes. *J Mol Cell Cardiol.* 41:451-458.2006. (4,859/13) *mit Editorial von Smith G, MacQuaide N. Swallowing a spider to catch a fly: Ca-calmodulin dynamics in adult cardiomyocytes J Mol Cell Cardiol.* 41:416-417.2006.
 32. Wagner S, Dybkova N, Rasenack ECL, Jacobshagen C, Fabritz L, Kirchhof P, Maier SKG, Zhang T, Hasenfuss G, Heller Brown J, Bers DM, **Maier LS**. Ca/calmodulin-dependent protein kinase II regulates cardiac Na channels. *J Clin Invest.* 116:3127-3138.2006. (15,754/49) *mit Cover Figure der JCI Dezemberausgabe 2006.*
 33. Yurukova S, Kilić A, Leineweber K, Dybkova N, **Maier LS**, Brodde O-E, Kuhn M. Ca²⁺/calmodulin kinase II - mediated increased cardiac relaxation responses to β -adrenergic receptor stimulation in ANP receptor deficient mice. *Cardiovasc Res.* 73:678-688.2007. (6,127/3)
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 35. Guan K, Wagner S, Unsöld B, **Maier LS**, Kaiser D, Hemmerlein B, Nayernia K, Engel W, Hasenfuss G. Generation of functional cardiomyocytes from adult mouse spermatogonial stem cells. *Circ Res.* 100:1615-25.2007. (9,721/25) *laut der American Heart Association (AHA) eine der 10 wichtigsten Veröffentlichungen 2007.*
 36. Schillinger W, Teucher N, Sossalla S, Kettlewell S, Werner C, Elgner A, Tenderich G, Pieske B, Schöndube

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38. Sag CM, Dybkova N, Neef S, **Maier LS**. Effects on recovery during acidosis in cardiac myocytes overexpressing CaMKII. *J Mol Cell Cardiol*. 43:696-709.2007. (5,246/1)
39. Zhang T, Kohlhaas M, Backs J, Phillips W, Mishra S, Dybkova N, Chang S, Bers DM, **Maier LS**, Olson EN, Heller Brown J. Cytoplasmic and nuclear isoforms of CaMKII differentially affect calcium handling but similarly regulate HDAC/MEF2 transcriptional response. *J Biol Chem*. 282:35078-35087.2007. (5,581/16)
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44. Lewinski D, Zhu D, Khafaga M, Kockskämper J, **Maier LS**, Hasenfuss G, Pieske B. Frequency-dependence of the slow force response. *Front Biosci*. 13:7202-7209.2008. (3,308/1)
45. Mauritz C, Schwanke K, Reppel M, Neef S, Katsirntaki K, **Maier LS**, Nguemo F, Menke S, Haustein M, Hescheler J, Hasenfuss G, Martin U. Generation of Functional Murine Cardiac Myocytes from Induced Pluripotent Stem Cells. *Circulation*. 118:507-517.2008. (14,595/33) mit Editorial von Tulloch NL, Pabon L, Murry CE. Get with the (re)program: cardiovascular potential of skin-derived induced pluripotent stem cells. *Circulation*. 118:472-475.2008.
46. Backs J, Backs T, Neef S, Kreusser MM, Lehmann LH, Patrick DM, Grueter CE, Qi X, Richardson JA, Hill JA, Katus HA, Bassel-Duby R, **Maier LS**, Olson EN. The δ isoform of CaM kinase II is required for pathological cardiac hypertrophy and remodeling after pressure overload. *Proc Natl Acad Sci U S A*. 106:2342-2347.2009. (9,380/7)
47. Wagner S, Hacker E, Grandi E, Weber SL, Dybkova N, Sossalla S, Sowa T, Bers DM, **Maier LS**. Ca/calmodulin kinase II differentially modulates potassium currents. *Circ Arrhythmia Electrophysiol*. 2:285-294.2009. (~5/-)
48. Jacobshagen C, Pax A, Unsöld BW, Seidler T, Schmidt-Schweda S, Hasenfuss G, **Maier LS**. Impact of large volume, ice-cold intravenous fluid on the respiratory function in patients after cardiac arrest. *Resuscitation*. 80:1223-1228.2009. (~2.5/1) mit Editorial von Soar J, Foster J, Breitzkreutz R. Fluid infusion during CPR and after ROSC-Is it safe? *Resuscitation*. 80:1221-1222.2009.
49. Haase A, Olmer R, Schwanke K, Wunderlich S, Merkert S, Hess C, Zweigerdt R, Gruh I, Meyer J, Wagner S, **Maier LS**, Han DW, Glage S, Miller K, Fischer P, Schöler HR, Martin U. Generation of induced pluripotent stem (iPS) cells from human cord blood. *Cell Stem Cell*. 5:434-441.2009. (16,826/-)
50. Sag CM, Wadsack DP, Khabbazzadeh S, Abesser M, Grefe C, Neef S, Maier SKG, **Maier LS**. CaMKII contributes to cardiac arrhythmogenesis in transgenic CaMKII δ_C mice having heart failure. *Circ Heart Fail*. 2:664-675.2009. (~5/-)
51. Silter M, Kögler H, Wilting J, Schäfer K, Toischer K, Rokita AG, Breves G, **Maier LS**, Katschinski DM. Impaired Ca^{2+} -handling in HIF-1 α +/- mice as a consequence of pressure overload. *Pflugers Arch*. 2009 Nov 8. [Epub ahead of print] (~3.5/-)
52. Knöll R, Kostin S, Klede S, Savvatis K, Klinge L, Stehle I, Gunkel S, Kötter S, Babicz K, Sohns M, Miocic S, Didié M, Knöll G, Zimmermann WH, Thelen P, Bickeböller H, **Maier L**, Schaper W, Schaper J, Kraft T, Tschöpe C, Linke WA, Chien KR. A common MLP (Muscle LIM Protein) variant is associated with cardiomyopathy. *Circ Res*. 2009 Dec 31. [Epub ahead of print] (9,989/-)
53. Neef S, Dybkova N, Sossalla S, Ort KR, Seipelt R, Schöndube FA, Hasenfuss G, **Maier LS**. CaMKII dependent diastolic SR Ca^{2+} leak and elevated diastolic Ca^{2+} levels in right atrial myocardium of patients with atrial fibrillation. *Circ Res*. 2010 Jan 7. [Epub ahead of print] (9,989/-)
54. Wittköpper K, Fabritz L, Neef S, Ort KR, Grefe C, Unsöld B, Kirchhof P, **Maier LS**, Hasenfuss G, Dobrev D,

- Eschenhagen T, El-Armouche A. Constitutively active phosphatase inhibitor-1 improves cardiac contractility in young mice but is deleterious after catecholaminergic stress and with aging. *J Clin Invest.* (im Druck). (~15/-)
55. Schott P, Jacobshagen C, Köhler J, Seidler T, Asif AR, Dihazi H, Hasenfuss G, **Maier LS**. Proteome changes in CaMKII δ_c -overexpressing cardiac myocytes. *J Cardiovasc Pathol.* (im Druck). (~5/-)
56. Sossalla S, Mazur M, Kallmeyer B, Wagner S, Toischer K, Schmitto JD, Schöndube F, Hasenfuss G, Belardinelli L, **Maier LS**. Antiarrhythmic properties of ranolazine and improved diastolic function in isolated human atrial myocardium. *J Am Coll Cardiol.* (im Druck). (~15/-)
57. Jacobshagen C, Pelster T, Pax A, Horn W, Schmidt-Schweda S, Unsöld BW, Seidler T, Hasenfuss G, **Maier LS**. Effects of mild hypothermia on hemodynamics in cardiac arrest survivors and isolated failing human myocardium. *Clin Res Cardiol.* (im Druck). (~2/-)
58. Sedej S, Heinzl FR, Walther S, Dybkova N, Wakula P, Groborz J, Gronau P, **Maier LS**, Vos MA, Lai FA, Napolitano C, Priori S, Kocksämper J, Pieske BM. Na⁺-dependent SR Ca²⁺ overload induces arrhythmogenic events in mouse cardiomyocytes with a human CPVT mutation. *Cardiovasc Res.* (im Druck). (~5/-)

Übersichtsarbeiten mit (* bzw. ohne) komplettem Reviewprozess

1. *Schillinger W, Lehnart SE, Prestle J, Preuss M, Pieske B, **Maier LS**, Meyer M, Just H, Hasenfuss G. Influence of SR Ca²⁺-ATPase and Na⁺-Ca²⁺-exchanger on the force-frequency relation. *Basic Res Cardiol.* 93 (Suppl.1):38-45.1998. (1,573/25)
2. Pieske B, **Maier LS**, Schmidt-Schweda S. Sarcoplasmic reticulum Ca²⁺ load in human heart failure. *Basic Res Cardiol.* 97 (Suppl.1):63-71.2002. (1,994/-)
3. **Maier LS**, Bers DM. Calcium, calmodulin, and calcium/calmodulin kinase II - Heartbeat to heartbeat and beyond. *J Mol Cell Cardiol.* 34:919-939.2002. (4,091/106)
4. ***Maier LS**. CaMKII δ overexpression in hypertrophy and heart failure: cellular consequences for excitation-contraction coupling. *Brazil J Med Biol Res.* 38:1293-1302.2005. (0,859/4)
5. ***Maier LS**, Hasenfuss G. Role of [Na⁺]_i and the emerging involvement of the late Na current (I_{Na,late}) in the pathophysiology of cardiovascular disease. *Eur Heart J.* 8 (Suppl A):A6-A9.2006. (1,506/3)
6. **Maier LS**. Molecular pathogenesis of heart failure. *Molekulare Pathogenese der Herzinsuffizienz – Inhibition der CaMKII als neuartiger therapeutischer Ansatz.* *Dtsch Med Wochenschr.* 131:503-505.2006. (0,584/-)
7. Wagner S, **Maier LS**. Modulation of cardiac Na and Ca currents by CaM and CaMKII. *J Cardiovasc Electrophysiol.* 17 Suppl 1:S26-33.2006. (3,265/-)
8. *Jacobshagen C, **Maier LS**. Strategisches Vorgehen bei akuter Lungenembolie. *Med Welt.* 57:377-384.2006. (~0,5/-)
9. **Maier LS**, Bers DM. Role of Ca/calmodulin-dependent protein kinase (CaMK) in excitation-contraction coupling in the heart. *Cardiovasc Res.* 73:631-640.2007. (6,127/36)
10. Neef S, **Maier LS**. Remodeling of excitation-contraction coupling in the heart: Inhibition of sarcoplasmic reticulum Ca²⁺ leak as a novel therapeutic approach. *Curr Heart Fail Rep.* 4:11-17.2007. (~1,0/-)
11. *Rosenkranz S, **Maier LS**, Maack C, Böhm M. Hotline Update of Clinical Trials and Registries presented at the German Cardiac Society Meeting 2007: 2L-Registry, Kardio-Pro, EVER, AFFECT, VTACH, ARTS II, OP-TAMI, PEPCAD I, PEPCAD II, GERSHWIN, SPICE, FIX-CHF and CREDIT. *Clin Res Cardiol.* 96:457-68.2007. (1,442/3)
12. Seidler T, Hasenfuss G, **Maier LS**. Targeting altered calcium physiology in the heart: Translational approaches to excitation, contraction, and transcription. *Physiology.* 22:328-334.2007. (6,954/3)
13. Hasenfuss G, **Maier LS**. Mechanism of action of the new anti-ischemia drug ranolazine. *Clin Res Cardiol.* 97:222-226.2008. (2,418/3)
14. Sossalla S, Hasenfuss G, **Maier LS**. Die Inhibition des späten Natriumeinstroms als neuartige kardioprotektive Therapieoption. *Kardiologie.* 2:142-148.2008. (~0,5/-)
15. ***Maier LS**, Maack C, Ritter O, Böhm M. Hotline Update of Clinical Trials and Registries presented at the German Cardiac Society Meeting 2008: PEPCAD, LokalTax, INH, German Ablation Registry, German Device Registry, DES.DE Registry, DHR, Reality, SWEETHEART Registry, ADMA, GERSHWIN. *Clin Res Cardiol.* 97:356-363.2008. (2,418/1)
16. **Maier LS**. Role of CaMKII for signaling and regulation in the heart. *Front Biosci.* 14:486-496.2009. (3,308/1)
17. ***Maier LS**, Hasenfuss G. Inhibition of the late sodium current (I_{Na,late}) with ranolazine: A new cardioprotective mechanism. *European Cardiovascular Disease (Volume 4 Issue II).* (im Druck). (~2/-)
18. ***Maier LS**, Baumhäkel M, Böhm M. Hotline sessions presented at the American College of Cardiology Congress 2009. *Clin Res Cardiol.* 98:345-52.2009. (2,418/-)
19. ***Maier LS**, Schirmer S, Walenta K, Jacobshagen C, Böhm M. Hotline Update of Clinical Trials and Registries presented at the German Cardiac Society Meeting 2009. *Clin Res Cardiol.* 98:413-9.2009. (2,418/-)
20. **Maier LS**. A novel mechanism for the treatment of angina, arrhythmias, and diastolic dysfunction: Inhibition of

late I_{Na} using ranolazine. J Cardiovasc Pharmacol. 54:279-286.2009. (~2,5/-)

21. Lehnart SE, **Maier LS**, Hasenfuss G. Abnormalities of calcium metabolism and myocardial contractility depression in the failing heart. Heart Fail Rev. 14:213-224.2009. (~2/-)

Editorials

1. **Maier LS**, Bers DM, Heller Brown J. Calmodulin and Ca^{2+} /calmodulin kinases in the heart – Physiology and pathophysiology. Cardiovasc Res. 73:629-630.2007. (6,127/3)
2. **Maier LS**. Vitamin A for the heart – Progress for cardiac hypertrophy regression? Am J Physiol Heart Circ Physiol. 294:H588-589.2008. (3,643/-)
3. Sossalla S, **Maier LS**. Young ambitious cardiologists and scientific research – reasons to get involved. Kardiol Pol. 67:1310-1312.2009. (~1/-)

Fallbeschreibungen

1. **Maier LS**, Hermann HP, Scholz KH. Massive pulmonary embolism with large floating thrombus in the truncus of the pulmonary artery. Intensive Care Med. 27:1674-1676.2001. (2,314/4)
2. **Maier LS**, Buchwald AB, Ehlers B, Rühmkorf, K, Scholz KH. Closure of an iatrogenic aortocoronary arteriovenous fistula: Transcatheter balloon embolization following failed coil embolization and salvage of coils that migrated into the coronary venous system. Catheter Cardiovasc Interv. 55:109-112.2002. (1,074/2)
3. **Maier LS**, Teucher N, Dörge H, Konstantinides S. Large emboli on their way through the heart - First live demonstration of large paradoxical embolisms through a patent foramen ovale. Eur J Echocardiogr. 8:158-160.2007. (~1,0/-)

Buchbeiträge

1. **Maier LS**. Medizinische Psychologie und Soziologie. In: *Fit fürs Physikikum - Das GK1-Repetitorium für die schriftliche und die mündliche Prüfung*, herausgegeben von Beilmann A, Buchta M, Horn-Teka E-M, Kubitzka B. Wiesbaden: Ullstein Mosby, 761-838,1997.
2. Pieske B, Schillinger W, Dieterich S, **Maier LS**, Hasenfuss G, Prestle J. Distinct phenotype patterns of Ca^{2+} handling proteins in end-stage failing human hearts. In: *From Molecule to Man*, herausgegeben von Zehender M, Breithardt G, Just H. Darmstadt: Steinkopff Verlag, 19-32.2000.
3. **Maier LS**, Buchta M, Autenrieth C. Psychologie. In: *Das Physikikum - GK1-Repetitorium*, herausgegeben von Buchta M, Sönnichsen A, 1. Auflage. München: Urban & Fischer, 1021-1121.2003.
4. **Maier LS**. Calcium/calmodulin kinase as a novel anti-arrhythmic target. In: *Novel Therapeutic Targets for Antiarrhythmic Drugs*, herausgegeben von George E. Billman. Wiley Publishers, 339-366.2010.

Bücher

1. **Maier LS**. *Die Bedeutung von Natrium und Calcium für die elektromechanische Kopplung des Myokards. Neue Methoden zur Messung der intrazellulären Natriumkonzentration, der intrazellulären Calciumtransienten und des Calciumgehalts des sarkoplasmatischen Retikulums im menschlichen Myokard und Tiermyokard*, herausgegeben von Pieske B, **Maier LS**. Marburg: Tectum-Verlag,1999.
2. **Maier LS**. *Die Bedeutung der Ca^{2+} -Calmodulin abhängigen Proteinkinase II (CaMKII) für das sarkoplasmatische Retikulum (SR) bei kardialer Hypertrophie und Herzinsuffizienz*, herausgegeben von Pieske B, **Maier LS**. Marburg: Tectum-Verlag,2004.

Editortätigkeit

- Guest Editor für die „Review Focus Series“: „*Calmodulin and Ca/calmodulin kinases in the heart – Physiology and pathophysiology*“ in der Zeitschrift Cardiovascular Research (erschieden März 2007)
- Associate Editor für Cardiology Research and Practice seit 2009
- Editorial Board für Journal of Molecular and Cellular Cardiology ab 2010

Buchreihe

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1. **Maier LS**. Die Bedeutung von Natrium und Calcium für die elektromechanische Kopplung des Myokards, 1999.
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Abstracts

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