

## Articles

1974

[1] Problèmes d'évolution du second ordre associés à des opérateurs maximaux monotones, **C. R. Acad. Sci. Paris t. 278**, 1099-1101 (1974).

1976

[2] Équations d'évolution du second ordre associées à des opérateurs maximaux monotones, **Proc. Roy. Soc. Edinburgh 75 A**, 131-147 (1976).

1977

[3] Compacité de l'opérateur définissant la solution d'une équation d'évolution non homogène (*coll. P. Baras & J.C. Hassan*), **C. R. Acad. Sci. Paris t. 284**, 799-802 (1977).

1978

[4] Equations non linéaires avec conditions aux limites de type Sturm-Liouville, **An. Stiin. Univ. Iassy 24**, 277-287 (1978).

1979

[5] Solutions singulières d'équations elliptiques semi-linéaires, **C. R. Acad. Sci. Paris t. 288**, 867-869 (1979).

[6] Comportement asymptotique de la solution d'une équation d'évolution semi-linéaire de la chaleur (*coll. P. Baras*), **Comm. P.D.E. 4**, 795-807 (1979).

[7] Effets régularisants de semi-groupes non-linéaires dans des espaces de Banach, **Ann. Fac. Sci. Toulouse I**, 171-200 (1979).

1980

[8] Un exemple concernant la solution bornée de l'équation  $\frac{d^2u}{dt^2} \in \partial\phi(u)$ , **Monat. für Math. 89**, 57-67 (1980).

[9] Removable singularities of some nonlinear elliptic equations (*coll. H. Brezis*), **Arch. Rat. Mech. Anal. 75**, 1-6 (1980).

[10] Removable singularities of some strongly nonlinear elliptic equations (*coll. J.L. Vazquez*), **Manuscripta Math. 33**, 129-144 (1980).

1981

[11] Asymptotic behaviour of the solutions of some nonlinear elliptic equations, in **Nonlinear Problems of Analysis in Geometry and Mechanics**, Pitman Ed. 198-208 (1980).

[12] Singular solutions of some nonlinear elliptic equations, **Nonlinear Anal. T. M. & A 5**, 225-242 (1981).

[13] Singularités éliminables d'équations elliptiques non linéaires, **J. Diff. Equ.** **41**, 87-95 (1981).

[14] Comportement asymptotique des solutions d'équations elliptiques semi-linéaires dans  $\mathbb{R}^N$ , **Ann. Mat. Pura Appl.** **127**, 25-50 (1981).

#### 1982

[15] Some remarks on the convergence of approximate solutions of some nonlinear evolution equations in Hilbert space, **Math. of Computation** **39**, 325-337 (1982).

[16] Asymptotic behaviour of the solution of a semilinear parabolic equation (*coll. A. Gmira*), **Monat. für Math.** **94**, 299-311 (1982).

[17] Equations d'évolution semi-linéaires du second ordre dan, **Rev. Roumaine Math. Pures Appl.** **27**, 95-123 (1982).

[18] Singularités isotropes des solutions d'équations elliptiques non linéaires, **Portugaliae Math.** **41**, 88-102 (1982).

[19] Comportement asymptotique de la solution d'une équation non linéaire de la chaleur dans  $\mathbb{R}^n$  (*coll. A. Gmira*), **C. R. Acad. Sci. Paris t.** **295**, 727-730 (1982).

#### 1983

[20] Weak weak-star compactness of dominated subsets of  $L^1_\mu(E; L(F_\nu^\infty))$ , **Houston J. Math.** **9**, 581-586 (1983).

[21] Existence theory and qualitative properties of the solutions of some first order quasilinear variational inequalities (*coll. J.I. Diaz*), **Indiana Univ. Math. J.** **32**, 319-361 (1983).

[22] Compacité du support des solutions d'équations quasilinéaires elliptiques ou paraboliques (*coll. J.I. Diaz*), **C. R. Acad. Sci. Paris t.** **297**, 149-152 (1983).

[23] Behaviour of solutions of nonlinear elliptic equations near a singularity of codimension 2, in **Contribution to Nonlinear Partial Differential Equations**, Pitman Ed. 274-284 (1984).

#### 1984

[24] Global behaviour and symmetry properties of singular solutions of nonlinear elliptic equations, **Ann. Fac. Sci. Toulouse** **6**, 1-31 (1984).

[25] Large time behaviour of the solutions of semilinear parabolic equations in  $\mathbb{R}^N$  (*coll. A. Gmira*), **J. Diff. Equ.** **53**, 411-434 (1984).

[26] Singularities of some elliptic equations with an exponential nonlinearity (*coll. J.L. Vazquez*), **Math. Annalen** **269**, 119-135 (1984).

#### 1985

[27] Isolated singularities of some semilinear elliptic equations (*coll. J.L. Vazquez*), **J. Diff. Equ.** **60**, 301-321 (1985).

[28] Local vanishing properties of solutions of elliptic and parabolic quasilinear equations (*coll. J.I. Diaz*), **Trans. Amer. Math. Soc.** **290**, 787-814 (1985).

[29] Singularités isolées de l'équation  $\operatorname{div}(|\nabla u|^{p-2}\nabla u) = 0$  (*coll. S. Kichenassamy*), **C. R. Acad. Sci. Paris t.** **301**, 149-151 (1985).

## 1986

- [30] Weak and strong singularities of nonlinear elliptic equations, **Proc. Symp. Pure Math.** **45**, 477-495 (1986).
- [31] Singular solution of the p-Laplace equation (*coll. S. Kichenassamy*), **Math. Annalen** **275**, 599-615 (1986).
- [32] Solutions singulières d'équations quasi-linéaires elliptiques (*coll. A. Friedman*), **C. R. Acad. Paris t. 302**, 147-150 (1986).
- [33] Singular solutions of some quasilinear elliptic equations (*coll. A. Friedman*), **Arch. Rat. Mech. Anal.** **96**, 359-387 (1986).
- [34] Singularités anisotropes d'équations elliptiques semi-linéaires dans le plan (*coll. X.Y. Chen & H. Matano*), **C. R. Acad. Sci. Paris t. 303**, 963-966 (1986).

## 1987

- [35] Un résultat d'isotropie pour des singularités d'inéquations elliptiques non linéaires (*coll. Y. Richard*), **C. R. Acad. Sci. Paris t. 304**, 423-426 (1987).
- [36] Limit behaviour of singular solutions of some semilinear elliptic equations, **Banach Center Publ.** **19**, 311-350 (1987).
- [37] Singularities of some degenerate elliptic equations, in **Contributions to Nonlinear Partial Differential Equations II**, Pitman Ed., 288-308 (1987).
- [38] Singularities of some quasilinear equations, in **Nonlinear Diffusion Equations and their Equilibrium States**, **Math. Sci. Res. Inst. Series 13**, Springer-Verlag Ed., 335-365 (1987).

## 1988

- [39] Bifurcation phenomena associated to the p-Laplace operator (*coll. M. Guedda*), **Trans. Amer. Math. Soc.** **310**, 419-431 (1988).
- [40] Local and global properties of solutions of quasilinear elliptic equations (*coll. M. Guedda*), **J. Diff. Equ.** **76**, 159-189 (1988).
- [41] Existence and uniqueness of the very singular solution of the porous media equation with absorption (*coll. S. Kamin*), **J. d'Analyse Math.** **51**, 245-258 (1988).

## 1989

- [42] Quasilinear elliptic equation involving critical Sobolev exponents (*coll. M. Guedda*), **Nonlinear Anal. T. M. & A.** **13**, 879-902 (1989).
- [43] Anisotropic singularities of nonlinear elliptic equations in  $\mathbb{R}^n$  (*coll. X.Y. Chen & H. Matano*), **J. Funct. Anal.** **83**, 50-97 (1989).
- [44] Isotropic singularities of solutions of nonlinear elliptic inequalities (*coll. Y. Richard*), **Ann. Inst. H. Poincaré-Anal. Non Linéaire** **6**, 37-72 (1989).
- [45] Geometric invariance of singular solutions of some partial differential equations, **Indiana Univ. Math. J.** **38**, 75-100 (1989).
- [46] Source type positive solutions of nonlinear parabolic inequalities (*coll. I. Moutoussamy*), **Ann. Scu. Norm. Sup. Pisa** **16 Ser. IV**, 527-555 (1989).
- [47] Groupe conforme de et propriétés limites des solutions de  $-\Delta u = \lambda e^u$  sur  $S^2$  (*coll. M.F. Bidaut-Véron*), **C. R. Acad. Sci. Paris t. 308**, 493-498 (1989).

## 1991

- [48] Boundary singularities of solutions of nonlinear elliptic equations (*coll. A. Gmira*), **Duke J. Math.** **64**, 271-324 (1991).
- [49] Nonlinear elliptic equations on compact Riemannian manifolds and asymptotics of Emden equations (*coll. M.F. Bidaut-Véron*), **Inventiones Math.** **106**, 489-539 (1991).
- [50] Local properties of stationary solutions of some nonlinear singular Schrödinger equations (*coll. B. Guersch*), **Rev. Mat. Iberoamericana** **7**, 65-114 (1991).
- [51] Solutions positives d'équations elliptiques semi-linéaires sur des variétés riemanniennes compactes (*coll. J.L. Vazquez*), **C. R. Acad. Sci. Paris t.** **312**, 811-815 (1991).

## 1992

- [52] Conformal asymptotics of the isothermal gas spheres equations, in **Progress in Nonlinear Differential Equations and their Applications** **7**, Birkhauser-verlag Ed., 537-560 (1992).
- [53] Première valeur propre non nulle du p-laplacien et équations quasilineaires elliptiques sur une variété riemannienne compacte, **C. R. Acad. Sci. Paris t.** **314**, 271-276 (1992).
- [54] A geometric and analytic approach to some problems associated with Emden equations, **Banach Center Publ.** **27**, 499-509 (1992).
- [55] Courbure scalaire et déformations conformes de l'espace hyperbolique (*coll. A. Ratto & M. Rigoli*), **C. R. Acad. Sci. Paris t.** **315**, 1153-1158 (1992).
- [56] Semilinear elliptic equations with uniform blow-up on the boundary, **J. d'Analyse Math.** **59**, 231-250 (1992).

## 1993

- [57] Flat core properties associated to the p-Laplace operator (*coll. S. Kamin*), **Proc. Amer. Math. Soc.** **118**, 1079-1085 (1993).
- [58] Uniqueness of solutions with blow-up at the boundary for a class of nonlinear elliptic equations (*coll. M. Marcus*), **C. R. Acad. Sci. Paris** **317**, 559-563 (1993).

## 1994

- [59] Some existence and uniqueness results for solutions of some quasilinear elliptic equations on compact Riemannian manifolds, **Colloquia Math. Soc. Janos Bolyai Series** **62**, 317-352 (1991).
- [60] Integral representation of solutions of semilinear elliptic equations in cylinders and applications (*coll. M. Bouhar*), **Nonlinear Anal. T. M. & A.** **23**, 275-296 (1994).
- [61] Isolated singularities and asymptotic behaviour of the solutions of a semilinear heat equation (*coll. I. Moutoussamy*), **Asymptotic Anal.** **9**, 259-289 (1994).
- [62] Scalar curvature and conformal deformations of the hyperbolic space (*coll. A. Ratto & M. Rigoli*), **J. Funct. Anal.** **121**, 15-77 (1994).
- [63] A note on conformal immersions of complete Riemannian manifolds and the extensions of the Schwarz lemma (*coll. A. Ratto & M. Rigoli*), **Duke Math. J.** **74**, 223-236 (1994).
- [64] Courbure scalaire et déformations conformes des variétés riemanniennes non compactes (*coll. A. Ratto & M. Rigoli*), **C. R. Acad. Sci. Paris, t.** **318**, 665-670 (1994).

## 1995

- [65] Un théorème d'annulation pour des équations elliptiques non linéaires sur des variétés riemanniennes compactes (*coll. J.R. Licois*), **C. R. Acad. Sci. Paris t. 320**, 1337-1342 (1995).
- [66] Equations elliptiques non linéaires singulières au bord dans des domaines non réguliers (*coll. J. Fabbrì*), **C. R. Acad. Sci. Paris, t. 320**, 941-946 (1995).
- [67] Trace au bord des solutions positives d'équations elliptiques non linéaires (*coll. M. Marcus*), **C. R. Acad. Sci. Paris, t. 321**, 179-184 (1995).

## 1996

- [68] Different kinds of singular solutions of nonlinear parabolic equations (*coll. J. L Vazquez*), in **Nonlinear Problems in Applied Mathematics**, Vol. in Honor of I. Stakgold, SIAM ed. 240-249 (1996).
- [69] Singular boundary value problems for nonlinear elliptic equations in non smooth domains (*coll. J. Fabbrì*), **Advances in Diff. Equ. 1**, 1075-1098 (1996).
- [70] Trace au bord des solutions positives d'équations elliptiques et paraboliques non linéaires. Résultats d'existence et d'unicité (*coll. M. Marcus*), **C. R. Acad. Sci. Paris, Série I, t. 323** 603-608 (1996).

## 1997

- [71] Scalar curvature and conformal deformations of noncompact Riemannian manifolds (*coll. A. Ratto & M. Rigoli*), **Math. Zeitschrift 225**, 395-426 (1997).
- [72] Asymptotic behaviour of solutions of some nonlinear parabolic or elliptic equations (*coll. V.A. Kondratiev*), **Asymptotic Analysis 14**, 117-156 (1997).
- [73] Uniqueness and asymptotic behavior of solutions with boundary blow-up for a class of nonlinear elliptic equations (*coll. M. Marcus*), **Ann. I.H.P. Anal. Nonlinéaire 14**, 237-275 (1997).
- [74] Trace au bord latéral des solutions positives d'équations paraboliques non-linéaires (*coll. M. Marcus*), **C. R. Acad. Sci. Paris, t. 324**, 783-788 (1997).

## 1998

- [75] On some nonlinear conservative elliptic equations in cylinders (*coll. J.R. Licois*), **Ann. Scuola Norm. Sup. Pisa Ser IV, Vol XXVI**, 249-283 (1998).
- [76] The boundary trace of positive solutions of semilinear elliptic equations: the subcritical case (*coll. M. Marcus*), **Arch. Rat. Mech. An. 144**, 201-231 (1998).
- [77] The boundary trace of positive solutions of semilinear elliptic equations: the supercritical case (*coll. M. Marcus*), **J. Math. Pures Appl. 77**, 481-521 (1998).
- [78] The boundary trace of positive solutions of semilinear elliptic equations (*coll. M. Marcus*), **Proc. 3rd European Conf. Elliptic Parabolic Problems**, Pont-à-Mousson-1997. H. Amann ed., Adison Wesley, Longman, 230-241 (1998).

## 1999

- [79] The initial trace of positive solutions of semilinear parabolic equations (*coll. M. Marcus*), **Comm. in P.D.E. 24**, 1445-1499 (1999).
- [80] Singularities in  $\mathbb{R}^2$  for a semilinear elliptic equation with a non-Lipschitz nonlinearity (*coll. M.F. Bidaut-Véron, V. Galaktionov & Ph. Grillot*), **J. Diff. Equ. 154**, 318-338 (1999).

## 2000

- [81] Boundary trace of the solutions of the Gaussian curvature equation (*coll. M. Grillot*), **Proc. Royal Soc. Edinburgh** **130A**, 527-560 (2000).
- [82] Source type solution for the one-dimensional diffusion-convection equation (*coll. A. Gmira & M. Guedda*), **NoDEA** **7**, 127-142 (2000).
- [83] Multiple positive solutions of some quasilinear Neumann problems (*coll. S. I. Pohozaev*), **Applicable Analysis** **74**, 363-390 (2000).
- [84] Blow-up results for nonlinear hyperbolic inequalities (*coll. S. I. Pohozaev*), **Ann. Scuola Norm. Sup. Pisa Ser IV** **29**, 393-420 (2000).
- [85] Nonexistence results of solutions of semilinear differential inequalities on the Heisenberg group (*coll. S. I. Pohozaev*), **Manuscripta Mathematica** **102**, 85-99 (2000).

## 2001

- [86] Long time vanishing property of solutions of sublinear parabolic equations and semi-classical limit of Schrödinger operators (*coll. Y. Belaud & B. Helffer*), **Funct Diff. Diff. Equ.** **8**, 35-48 (2001).
- [87] Generalized boundary value problems for nonlinear elliptic equations, **Elec. J. Diff. Equ., Conf.** **06**, 313-342 (2001).
- [88] Semilinear parabolic equations with measure boundary data and isolated singularities (*coll. M. Marcus*), **J. Analyse. Math** **85**, 245-290 (2001).
- [89] Long time vanishing property of solutions of some semilinear parabolic equations (*coll. Y. Belaud & B. Helffer*), **Ann. I.H.P. Anal. Nonlinéaire** **18**, 43-68 (2001).
- [90] Removable singularities and boundary traces (*coll. M. Marcus*), **J. Math. Pures Appl.** **80**, 879-900 (2001).
- [91] Isolated boundary singularities of signed solutions of some nonlinear parabolic equations (*coll. M. Marcus*), **Adv. Diff. Equ.** **6**, 1281-1316 (2001).

## 2002

- [92] Asymptotics of solutions of quasilinear parabolic equations via the refined energy method and semi-classical limit of Schrödinger operators, **Lecture Notes in Pure and Applied Mathematics** **229**, A. Benkirane et A. Touzani eds., Marcel Dekker, 285-297 (2002).
- [93] Initial trace of solutions of some quasilinear equations with absorption (*coll. M.F. Bidaut-Véron & E. Chasseigne*), **J. Funct. Anal.** **193**, 140-205 (2002).
- [94] Singular p-harmonic functions and related quasilinear equations on manifolds, **Elec. J. Diff. Equ., Conf.** **8**, 133-154 (2002).
- [95] Initial trace of positive solutions to semilinear parabolic inequalities (*coll. M. Marcus*), **Adv. Nonlinear Studies** **2**, 395-436 (2002).

## 2003

- [96] The boundary trace and generalized boundary value problem for semilinear elliptic equations with a strong absorption (*coll. M. Marcus*), **Comm. Pure Appl. Math.** **56** (6), 689-731 (2003).
- [97] A dynamical system approach to the construction of singular solutions of some degenerate elliptic equations, (*coll. J. Huentutripay & M. Jazar*), **J. Diff. Equ.** **195**, 175-193 (2003) .

[98] Existence and uniqueness results for large solutions of general nonlinear elliptic equations (*coll. M. Marcus*), **J. Evolution Equ.** **3**, 637-652 (2003).

[99] Capacitary estimates of solutions of a class of nonlinear elliptic equations (*coll. M. Marcus*), **C. R. Acad. Sci. Paris Ser. I** **336**, 913-918 (2003).

#### 2004

[100] Some aspects of the boundary trace of solutions of semilinear elliptic inequalities, **J. Math. Sci.** **124** 5163-5175 (2004). Version en russe parue dans **Sovremenniaia Matematika. Fundamentalnie Napravleniia** **1**, 56-68 (2003).

[101] Boundary trace of positive solutions of nonlinear elliptic inequalities (*coll. M. Marcus*), **Ann. Scu. Norm. Sup. Pisa** **5**, 481-533 (2004).

[102] Symmetry properties of solutions of semilinear elliptic equations in the plane (*coll. A. Porretta*), **Manuscripta Math.** **115**, 239-258 (2004).

[103] Capacitary estimates of positive solutions of semilinear elliptic equations with absorption (*coll. M. Marcus*), **J. Eur. Math. Soc.** **6**, 483-527 (2004).

[104] Boundary trace of solutions of semilinear elliptic equalities and inequalities, **Rendiconti Accademia Lincei: Matematica e Applicazioni Ser. IV****15**, 301-314 (2004).

#### 2005

[105] Large solutions of elliptic equations with strong absorption, **Progress in Nonlinear Differential Equations and Their Applications** **63**, 453-464, Birkhäuser Verlag Basel (2005).

#### 2006

[106] Maximal solutions of semilinear elliptic equations with locally integrable forcing term (*coll. M. Marcus*), **Israel J. Math.** **152**, 333-348 (2006).

[107] Boundary Harnack inequalities and a priori estimates of singular solutions of quasilinear equations (*coll. M. F. Bidaut-Véron & R. Borghol*), **Calc. Var. & Part. Dif. Equ.** **27**, 159-177 (2006).

[108] Asymptotic behaviour for the gradient of large solutions to some nonlinear elliptic equations (*coll. A. Porretta*), **Adv. Nonlinear Studies** **6**, 351-378 (2006).

[109] Symétrie des grandes solutions d'équations elliptiques semi linéaire (*coll. A. Porretta*), **C. R. Acad. Sci. Paris Ser. I** **342**, 483-487 (2006).

[110] Symmetry of large solutions of nonlinear elliptic equations in a ball (*coll. A. Porretta*), **J. Funct. Anal.** **236**, 581-591 (2006).

[111] Capacitary representations of positive solutions of semilinear parabolic equations (*coll. M. Marcus*), **C. R. Acad. Sci. Paris Ser. I** **342**, 655-660 (2006).

[112] Boundary singularities of solutions of  $N$ -harmonic equations with absorption (*coll. R. Borghol*), **J. Funct. Anal.** **241**, 611-637 (2006).

[113] Diffusion versus absorption in semilinear parabolic equations (*coll. A. Shishkov*), **C. R. Acad. Sci. Paris Ser. I** **342**, 569-574 (2006).

#### 2007

[114] The balance between diffusion and absorption in semilinear parabolic equations (*coll. A. Shishkov*), **Rend. Lincei, Mat. Appl.** **18**, 59-96 (2007).

[115] Boundary singularities of  $N$ -harmonic functions (*coll. R. Borghol*), **Comm. Part. Diff. Equ.** **32**, 1001-1015 (2007).

[116] Boundary singularities of positive solutions of some nonlinear elliptic equations (*coll. M.F. Bidaut-Véron, A. C. Ponce*), **C. R. Acad. Sci. Paris Ser. I** **344**, 83-88 (2007).

[117] The precise boundary trace of solutions of a class of supercritical nonlinear equations (*coll. M. Marcus*), **C. R. Acad. Sci. Paris I** **344**, 181-186 (2007).

[118] The precise boundary trace of positive solutions of the equation  $\Delta u = u^q$  in the supercritical case (*coll. M. Marcus*), **Perspectives in Nonlinear Partial Differential Equations In Honor of Haïm Brezis**. Contemporary Math. **446**, American Mathematical Society. H. Berestycki, M. Bertsch, F. Browder, B. Peletier, L. Nirenberg, L. Véron eds, 345-383 (2007).

[119] Maximal solutions of equation  $\Delta u = u^q$  in arbitrary domains (*coll. M. Marcus*), **C. R. Acad. Sci. Paris I** **344**, 299-304 (2007).

## 2008

[120] Reduced measures associated to parabolic problems (*coll. W. Al Sayed & M. Jazar*), **Proceedings Steklov Inst.** **260**, 3-24 (2008).

[121] Separable solutions to some quasilinear equations with source reaction (*coll. M. F. Bidaut-Véron & M. Jazar*), **J. Diff. Equ.** **244**, 274-308 (2008).

[122] Singular solutions of some nonlinear parabolic equations with spatially inhomogeneous absorption (*coll. A. Shishkov*), **Calc. Var. & Part. Diff. Equ.** **33**, 343-375 (2008).

## 2009

[123] Diffusion versus absorption in semilinear elliptic equations (*coll. A. Shishkov*), **J. Math. Anal. Appl.** **352**, 206-217 (2009).

[124] On uniqueness of large solutions of nonlinear parabolic equations in nonsmooth domains (*coll. W. Al Sayed*), **Adv. Nonlinear Studies** **9**, 149-164 (2009).

[125] Separable  $p$ -harmonic functions in a cone and related equations on manifolds (*coll. A. Porretta*), **J. Eur. Math. Soc.** **11**, 1285-1305 (2009).

[126] Maximal solutions for  $-\Delta u + u^q = 0$  in open and finely open sets. (*coll. M. Marcus*), **J. Math. Pures Appl.** **91**, 256-295 (2009).

## 2010

[127] A characterization of Besov spaces with negative exponents, (*coll. M. Marcus*), in **Around the Research of Vladimir Maz'ya I Function Spaces**. Springer Verlag International Mathematical Series, Vol. 11, 273-284 (2010).

[128] Solutions of nonlinear parabolic equations with initial blow-up (*coll. W. Al Sayed*), **Quaderni di Mat.** **23**, 1-24 (2010).

## 2011

[129] Isolated boundary singularities of semilinear elliptic equations (*coll. M. F. Bidaut-Véron & A. Ponce*), **Calc. Var. & Part. Diff. Equ.** **40**, 183-221 (2011).

[130] Boundary trace of positive solutions of semilinear elliptic equations in Lipschitz domains: the subcritical case (*coll. M. Marcus*), **Annali Scu. Norm. Sup. Pisa Cl Sci.** **X**, 913-984 (2011).



[131] Local and global properties of solutions of heat equation with superlinear absorption. (*coll. Nguyen-Phuoc T.*), **Adv. Diff. Equ.** **16**, 487-522 (2011).

[132] A note on maximal solutions of nonlinear parabolic equations with absorption, **Asymptotic Analysis** **72**, 189-200 (2011).

## 2012

[133] Boundary value problems with measures for elliptic equations with singular potentials. (*coll. C. Yarur*), **J. Funct. Anal.** **262**, 733-772 (2012).

[134] Boundary singularities of solutions to elliptic viscous Hamilton-Jacobi equations (*coll. Nguyen-Phuoc T.*), **J. Funct. Anal.** **263**, 1487-1538 (2012)..

## 2013

[135] Propagation of singularities of nonlinear heat flow in fissured media, (*coll. A. Shishkov*), **Comm. Pure Appl. Anal.** **12**, 1769-1782 (2013).

[136] Separable solutions of quasilinear Lane-Emden equations (*coll. A. Porretta*), **J. Eur. Math. Soc.** **15**, 755-774 (2013).

[137] On the equation  $-\Delta u + e^u - 1 = 0$  with measures as boundary data, **Math. Zeitschrift** **273**,1-17 (2013).

[138] Initial trace of positive solutions of a class of degenerate heat equations with absorption (*coll. Nguyen-Phuoc T.*), **Discrete and Continuous Dyn. Syst.** **33**, 2033-2063 (2013).

[139] Capacitary estimates of solutions of semilinear parabolic equations (*coll. M. Marcus*), **Calc. Var. & Part. Diff. Equ.** **48**, 131-183 (2013).

[140] Existence and stability of solutions of general semilinear elliptic equations with measure data, **Adv. Nonlinear Studies** **13**, 447-460 (2013).

[141] Initial value problems for diffusion equations with singular potential (*coll. K. Gkikas*), **Contemporary Math.** **594**, 201-230 (2013).

[142] Initial trace of positive solutions of general semilinear heat equations (*coll. W. Al Sayed*), **Nonlinear Analysis T. M.& A.** **93**, 197-225 (2013).

[143] Remarks on some quasilinear equations with gradient terms and measure data (*coll. M.F. Bidaut-Véron, M.G. Huidobro*), **Contemporary Math.** **595**, 31-53 (2013).

[144] Quasilinear elliptic Hamilton-Jacobi equations on complete manifolds (*coll. M.F. Bidaut-Véron, M.G. Huidobro*), **C. R. Acad. Sci. Paris** **351**, 445-449 (2013).

## 2014

[145] Quasilinear Lane-Emden equations with absorption and measure data. (*coll. M. F. Bidaut-Véron, H. Nguyen Quoc*), **J. Math. Pures Appl.** **102** 315-337 (2014).

[146] Semilinear fractional elliptic equations with gradient nonlinearity involving measures(*coll. H. Chen*), **J. Funct. Anal** **266**, 5467-5492 (2014).

[147] Classification of positive solutions of heat equation with supercritical absorption (*coll. K. Gkikas*), **Adv. Nonlinear. Stud.** **14**, 47-113 (2014).

[148] Semilinear fractional elliptic equations involving measures (*coll. H. Chen*), **J. Diff. Eq.** **257**, 1457-1486 (2014).

[149] Quasilinear and Hessian type equations with exponential reaction and measure data. (*coll. H. Nguyen Quoc*), **Arch. Rat. Mech. Anal.** **214**, 235-267 (2014).

[150] Weakly and strongly singular solutions of semilinear fractional elliptic equations. (*coll. H. Chen*), **Asymptotic Anal.**, **88**, 165184 (2014).

[151] Local and global properties of solutions of quasilinear Hamilton-Jacobi equations (*coll. M.F. Bidaut-Véron, M.G. Huidobro*), **J. Funct. Anal.** **267**, 3294-3331 (2014).

#### **2015 and to appear**

[152] Wiener criteria for existence of large solutions of quasilinear elliptic equations with absorption (*coll. H. Nguyen Quoc*), **Potential Analysis** **42**, 681-697 (2015).

[153] Boundary trace of positive solutions of supercritical semilinear elliptic equations in dihedral domains: the supercritical case. (*coll. M. Marcus*), **Ann Scu. Norm. Sup. Pisa**, DOI Number: 10.2422/2036-2145.201310-011, to appear.

[154] Measure boundary value problems for semilinear elliptic equations with critical Hardy potentials (*coll. K. Gkikas*), **C. R. Acad. Sci. Paris** **353**, 315-320 (2015).

[155] Boundary singularities of solutions of semilinear elliptic equations with critical Hardy potentials (*coll. K. Gkikas*), **Nonlinear Analysis, T. M. A** **121**, 469-540 (2015).

#### **Submitted articles**

[156] Wiener criteria for existence of large solutions of nonlinear parabolic equations with absorption in a non-cylindrical domain (*coll. H. Nguyen Quoc*, submitted to **J. Diff. Eq.**).

[157] Boundary singularities of positive solutions of quasilinear Hamilton-Jacobi equations (*coll. M.F. Bidaut-Véron, M.G. Huidobro*), submitted to **Calculus of Variations and Part. Diff. Eq.**.

[158] An elliptic semilinear equation with source term and boundary measure data: the supercritical case (*coll. M. F. Bidaut-Véron, G. Hoang, Q-H Nguyen*), submitted to **J. Funct. Anal.**.

[159] Admissible initial growth for diffusion equations with weakly superlinear absorption (*coll. A. Shishkov*), submitted to **Comm. Cont. Math.**.

[160] Fractional heat equations with subcritical absorption with initial data measure, (*coll. H. Chen, Y. Wang*), submitted to **Nonlinear Analysis, T. M. A.**

#### **Works at the final step of redaction**

[161] Quasilinear elliptic equations with source mixed term and measure data (*coll. M. F. Bidaut-Véron, Q-H Nguyen*). Work under final revision.

[162] Elliptic equations involving general subcritical source nonlinearity and measures (*coll. P. Felmer, H. Chen*).

[163] Initial trace of positive solutions to fractional heat equation with subcritical absorption (*coll. H. Chen*).

#### **Works in preparation**

[162] Singular solutions of fractional elliptic equations in one dimension. (*coll. H. Chen*).

[163] Measure data problems for a class of quasilinear equations with absorption (*coll. M.F. Bidaut-Véron, L. Boccardo*).

[164] Nonlinear boundary value problems related to harmonic functions.

## Publication of books and book chapters

### I- Published

#### I-1            **Singularities of Solutions of Second Order Quasilinear Equations**

Pitman Research Notes in Mathematics Series **353**, pp 1-388 (1996) Addison-Wesley-Longman

#### I-2            **Elliptic Problems Involving Measures**

Chapitre 8, pp 593-712, dans l'ouvrage **Handbook of Differential Equations, Vol. 1. Stationary Partial Differential Equations** (2004) M. Chipot et P. Quittner eds., Elsevier Science.

#### I-3            **Nonlinear Second Order Elliptic Equations Involving Measures**

Collaboration with M. Marcus

De Gruyter Series in Nonlinear Analysis and Applications. **21** xiii+pp. 1-262 (2013).

### II- In preparation

Project under proposal of World Scientific.

#### **Local and Global Aspects of solutions of Quasilinear Elliptic Equations**

Publication initially scheduled en 2012 but postponed up to 2016.

### **Works published locally, graduate courses**

[A1] Coercivité et propriétés régularisantes des semi-groupes non linéaires dans les espaces de Banach, **Publ. Math. Univ. Besançon**, p. 1-75 (1975-76).

[A2] **Comportement asymptotique et singularités de solutions d'équations aux dérivées partielles non-linéaires**, Thèse de Doctorat d'État ès Sciences, p. 1-161, Université Paris 6 (1980).

[A3] **Régularité des solutions d'équations elliptiques linéaires et quasilineaires du second ordre**, cours de troisième cycle, p. 1-232, Université de Tours (1985).

[A4] Introduction to the non-linear trace theory and generalised boundary value problems, **MSRI Preprint Series 112**, p. 1-33 (1997).

[A5] **Aspects mathématiques de la mécanique des fluides**, cours de troisième cycle, p. 1-103, Université de Tours (1998).